AMERICAN RULEBOOK

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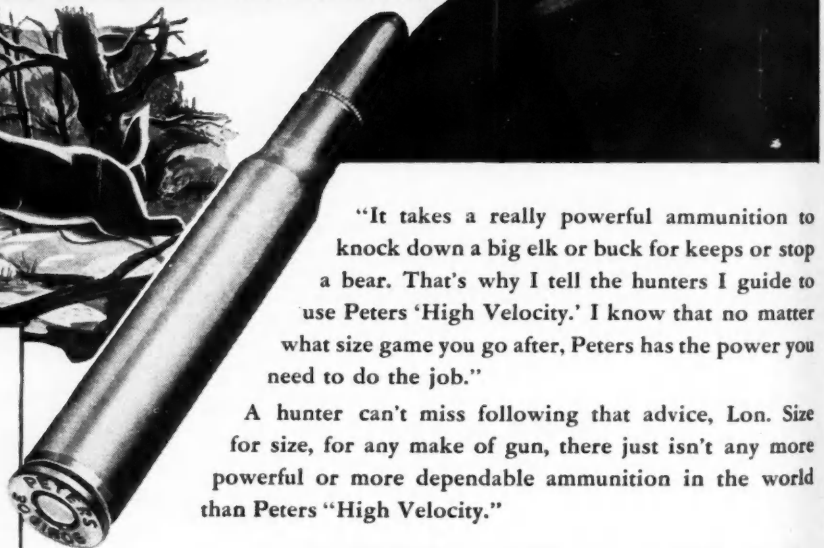
Big Game Guide,
Jackson, Wyoming



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The Rifle 1885-1888
Shooting and Fishing 1888-1906
Arms and the Man 1906-1923

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Vol. 98, No. 10 • October 19

Armed, Alert, and Peaceful an Editorial

The All-'Round Rifle by Richard F. Simmons
Some new thoughts on an old subject, by the author of "Custom Built Rifles"

Letters of a Wildcatter, Conclusion by Donald S. Hopkins
Concluding Don Hopkins' absorbing account of his 1949 safari to Africa

Loads for the .218

Mount Your Deer Head by Charley Niehuis
Step-by-step photographic directions for preparing your own trophy

North American Big Game: The Moose by Moyer and Whelen
The first of a series on hunting techniques for North American big game

Remodel Your Springfield by Conrad E. Graves, Jr. 3
Here's an easy way to convert that issue Springfield into a practical sporter

The End of a Search by Bill Depperman 3
The surprising result of Winchester's search for "One of One Thousand" rifles

Toughest Target by Percy Brown 3
In the Southwest they class the turkey as big game, and hunt him accordingly!

Spotting Scope 4

COVER

The dog on the cover is "Queen", a registered English setter owned by insurance man Bob Campbell of Huron, South Dakota. The camera used by photographer Sid Glanzer is a 4x5 Graphic view. The photo was on Ektachrome, f.8 at 1/50th of a second, with a 22B flashbulb

Published monthly by the NATIONAL RIFLE ASSOCIATION OF AMERICA, 1600 RHODE ISLAND AVENUE, WASHINGTON 6, D. C. Domestic Rates (North, South, and Central America) $4.0 a year, $7.00 for two years, $10 for three years; elsewhere add $.60 per year for foreig postage. Entered as second-class matter, April 1, 1908, at the post office at Washington, D. C. under act of March 3, 1879.

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Exclusive Features! . . . . Proven Superiorities!
Gives You BETTER SERVICE! VISION! VALUE!

BUSHNELL TRIPLE TESTED

Thanks friends, for your many letters! Glad to know my column is helping you with your problems. Binoculars are a source of great pleasure, and satisfaction when you *really know* them.

I. F. or C. F.?

Q. Why do you always feature Individual Focus? I find Central Focusing Binoculars quicker and easier to focus.

A. A good question. If you use Binoculars constantly at *very close range*, bird study, for example, requires a quick focus each time the object moves – the C. F. are certainly the best. However, 96% of all viewing is done at distances from 100 feet to infinity and, therefore, only one setting of the eyepieces is required for each observer. Once the person knows this setting for his own eyes, he can bring the Binoculars into focus instantly without looking through them. Military forces the world over use I. F. Binoculars exclusively for rugged, heavy duty use. More data on request.

Field of View Figures

Q. What do the figures 7° 10' on my Binoculars mean?

A. This is the angular field of view. The greater the angle, the wider the field of view. 7 degrees 10 minutes, translated to linear measurement, is a view 375 feet wide at a distance of 1000 yards from the observer. Most makers specify only the linear field of view

Achromatic Defined

Q. What is meant by Achromatic Lenses?

A. "Achromatic" refers to color corrected images. This correction is usually effected by cementing together two lenses of different refractive powers, such as a convex crown-glass lens and a concave flint-glass lens. A non-achromatic optical system will give images surrounded by a fringe of blue and red colors. The finest binoculars have achromatic lenses in the eyepieces as well as the objectives.

Telescope vs. Binoculars

Q. Wouldn't a lightweight telescope be as good for hunting as Binoculars?

A. With a hand telescope, it is possible to have high power with minimum weight and bulk, but the low light transmission and small field of view generally make it undesirable for hunting. Some of these objections are overcome with a Prismatic Monocular. Since it is much easier to view with both eyes than with one, Binoculars are usually preferred for their clear, relaxed vision plus "depth" to the image, permitting the observer to judge relative distances.

D. P. Bushnell

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Combines high resolving power with extreme lightness. (17 oz.) Very compact: 4¾" x 5¾". High illumination. Amazing clarity. Individual Focus. Bushnell Triple Testing in our own laboratory insures strain-free, relaxed, enjoyable viewing. Center Focus $4.00 extra

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InCidenTa/Ly

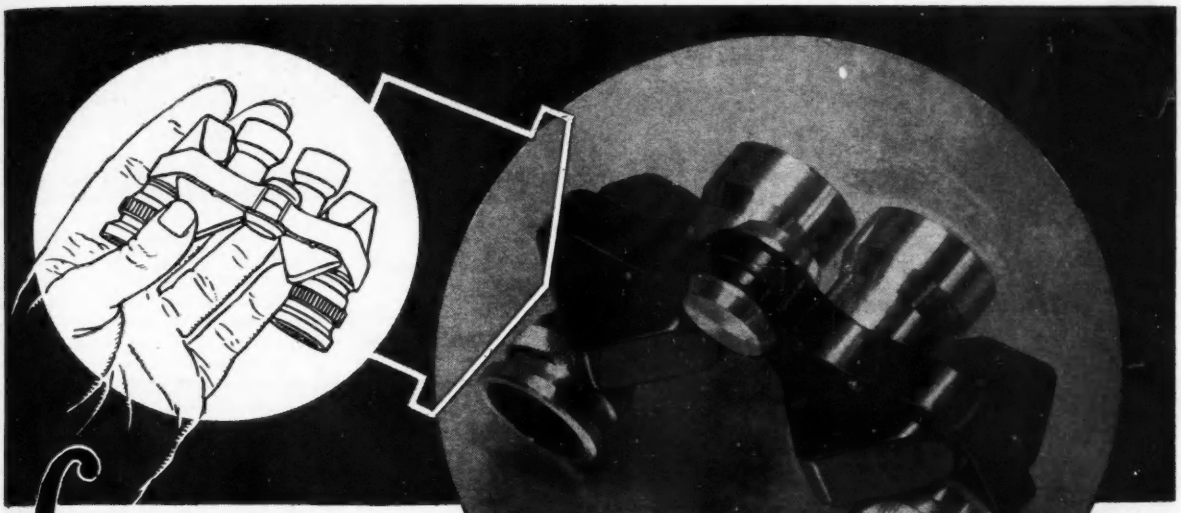
A few months ago we made a change in the RIFLEMAN so sweeping that it affected virtually every word of editorial copy which has since appeared in the magazine. So far, not a reader has noticed the difference . . . or if anyone has, he didn't find it worthy of mention. Actually, we would have been surprised if anyone had noticed this particular change. What we did (after a good many months of deliberation) was switch from one type face to another . . . in this case from a type called Caslon (after the English typographer who designed it) to one called Electra, designed a few years ago by W. A. Dwiggins. The reason, of course, was increased legibility. Electra offered a rounder, more open character . . . a character easier to read than the one we had previously used. Also, it gave us a few more words per page . . . in terms of the whole magazine, more reading matter per month.

The change from Caslon (designed two centuries ago) to Electra (designed in 1935, for use on modern presses and modern papers) is part of a continuing program of little things planned to make the RIFLEMAN an easier, more pleasing magazine to read as well as a more interesting one. Another change noticed by few was initiated with the August issue, when the lettering on the cover was changed. If you'll compare the issue you're now reading with one published prior to August 1950, you will see that the lettering is now smaller (though easier to read!) and that the red-white-and-blue stripe that used to separate the words "AMERICAN RIFLEMAN" and the cover photograph is no longer there. We didn't drop the use of the national colors because of any lapse of patriotism . . . but because we found that if the red harmonized with our choice of a cover subject the blue didn't, or vice versa. So we're using a narrow white stripe instead. And incidentally, that change in our cover took place gradually . . . The first change was made on the cover of the May 1950 issue, and the end result will not be on the presses until next month, when a final, hand-lettered, carefully figured version of the new lettering and white stripe will become a 'permanent' RIFLEMAN fixture.

Fortunately for the people who read them (and for the editors who put them together) magazines are rarely static affairs. Things just don't stand still around a publication office. Gradual change is always the order of the day. Our contents page provides a typical case history of the changes which have gradually been made in the magazine over the years. In the last decade (120 issues of the RIFLEMAN) nine major changes have taken place on that page alone.

None of these changes are important in themselves, but they do indicate what we feel is an openness of mind in the editing of the RIFLEMAN—a willingness to change where change is indicated. By the same token we aren't averse to holding on to features that remain good year after year. Despite that relatively minor change in the lettering, the RIFLEMAN cover remains essentially the same as it was when it first appeared back in 1938. After twelve years we still feel that our unique cover set-up, with its sideways title (which allows for a big, unbroken picture area) is something to hang on to. As willing as we are to experiment and to change, it's going to take a mighty slick salesman to sell us on a major revision as far as our cover is concerned. We like it . . . and so do you, if our mail is any indication!

JS



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Dope Bag Jan. 1950

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"TRUE" MAGAZINE SAYS
April 1950

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"AMERICAN LEGION" SAYS
August 1950

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- **COMBINE POWER, RANGE, WEIGHT**
- **POCKET SIZE COMPACTNESS**
- **QUALITY CONSTRUCTION, PERFORMANCE**

COATED to give you maximum results. A quality binocular in every way economy priced. They bear the UNITED "seal of approval" because they are all metal construction, scientifically ground lens. 3 inches long! Weight 4 ounces! A full 6 power prism binocular! Have achromatic lens. Field of view of 375 feet at 1,000 yards.

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Ricochets . . .

NOT ENOUGH

University City, Missouri

Editor:

As a member of sixteen years' standing, I have long entertained one pet peeve. The RIFLEMAN just doesn't come out often enough.

J. A. GIFFORD

NO NRA

Somewhere in Korea

Editor:

I should like to remark that a lot of us are just as glad there is no National Rifle Association in Korea as we are that one does exist in the USA.

Few people realize just how fortunate we are in America to have the opportunities we do have—among them the NRA.

WILBERT A. SPEIR
Colonel, S. C.

SOUTH DAKOTA PHEASANTS

Madison, Wisconsin

Editor:

I have just received this year's hunting regulations from South Dakota. From these it appears that 1) the pheasant season is set much later than usual, viz: from November 4 to 13 and 2) that non-residents, though charged the usual fee of $20.00, will be limited to *eight* birds instead of the twenty which were allowed last year.

While I do not know how many non-residents usually find out these things beforehand, this information might save some hunters a great deal of superfluous expense, driving, and general disappointment, since they represent a radical change from the situation of last year.

N. A. GILLESPIE

BORROWED RIFLEMAN

Columbus, Ohio

Editor:

I received a check for a friend's NRA membership over a month ago and held it up expecting to get a second member, but so far I have not succeeded. The second prospect finally stated that he was able to borrow the RIFLEMAN from several of his friends who are members. I wish to go on record as stating that I do not think this is a good practice. Not that we "gun nuts" should be selfish or lacking in generosity, but the point is that the magazine is just an extra service or privilege provided by the Association. My membership dues are paid chiefly to insure my right to own and lawfully employ firearms, and I feel that those who do not join because they can borrow the magazine are not bearing their portion of the burden. Furthermore, I feel that those who lend the magazine to others are contributing to the cause of those deluded individuals who are always trying to deprive law-abiding citizens of gun ownership.

S. G. SCHMITTLE

WHAT, NO BAYONET?

Newark, N. J.

Editor:

In "Military Semiautos" (September) the author states "The Classic example is the bayonet, which has lost its significance in modern warfare". I am afraid Mr. P[illegible] has been reading too much Buck Rogers [illegible]

At present the bayonet is being used extensively in Korea in hand-to-hand fight[illegible] Also I would like to quote from a book published by the Marine Corps known as "[illegible] Infantry Tactics." "The success of the defense depends upon each unit down to and including the fire team holding its assigned sector. Troops in the battle position DO NOT WITHDRAW." Also from the same: "If the enemy succeeds in reaching the [illegible] position, he is opposed with grenades, [illegible] and bayonets in close combat."

I will still carry the bayonet, which is a very effective weapon if used properly, in addition to the effect it has on the enemy when he faces steel. That is a morale factor to be taken into consideration. The Japs [illegible] cated the bayonet, but as with so much of their training and ideas, they used [illegible] Their technique left something to be desired.

S. P. JUNE
Master Sergeant, U. S. Marine C[illegible]

Jetmore, K[illegible]

Editor:

Piznak would do away with the bayo[illegible] Tradition, he says. Phooey! Let him be determined exponent of bayonet warfare [illegible] then repeat that statement. Our Def[illegible] Department may be hidebound but they're not crazy.

"Do away with the bulky hand guard," he says. Well, let him fire 50 rounds of rapid fire and then use a butt thrust on oncoming enemy and look at the palm of [illegible] hand, medium rare and useless for a w[illegible]

BOB FAWCE[illegible]

"ANONYMOUS"

Robles del Rio, Calif[illegible]

Editor:

George Bernard Shaw once aptly described a certain group as having "a genius for a[illegible] vmous denunciation". How any man [illegible] hide behind the cloak of anonymity after such vicious an attack as that contained in the [illegible] paragraph of the letter signed by "An Anonymous Reader" (RIFLEMAN, September) is beyond my understanding. At any rate, we've well rid of an undesirable member and the citizens of Ogden, Utah can take care of their own "poison pen" problems.

C. H. W. NA[illegible]

STUFFED ANIMALS

Glendale, Calif[illegible]

Editor:

Congratulations on the September [illegible] It is absolutely the finest I have ever seen and after some of the RIFLEMAN covers [illegible] is something!

GORDON M. ANDERS[illegible]

Coulee Dam, Washing[illegible]

Editor:

Do you have a brave cameraman capable of taking a picture of a ferocious American jackrabbit? I think those cover pictures of foreign stuffed animals are lousy.

H. L. BALDWI[illegible]

Hunting or Target Shooting- you'll do your best with a LYMAN

Finest Precision Telescope Sights

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The finest target scope in the world designed for exacting shooters. Every known improvement in scope manufacture has been combined with the best lenses made to give maximum light-gathering power for sharpness of image, and extremely fine and accurate adjustments for top scores. Large field of vision and choice of reticules.

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An ideal scope for varmint shooting or target work. Combines lower power with high luminosity and large field of vision. 3 point micrometer rear mount with ¼ minute clicks. Adjustments for range and individual eye are simplified by using graduated sleeve for range, and special ocular lens adjustment for exact focusing. Precision made by craftsmen.

LYMAN 4 POWER CHALLENGER

LYMAN 4 POWER CHALLENGER

The perfect 4X scope which gives a clear bright image and dead-center accuracy for hunting. Finest coated lenses and All-Weather adjustments. Especially recommended for long-range big game hunting.

LYMAN 2½ POWER ALASKAN

LYMAN 2½ POWER ALASKAN

The Alaskan has a world-wide reputation for being the finest 2½ power All-Weather scope made. The brilliant coated lenses, fine internal adjustments and over-all good workmanship go to make a wonderful rifle scope.

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SCOPE AND MOUNT COMBINATION TAILOR MADE FOR HIGH POWER BOLT ACTIONS AND SAVAGE 99

HERE is a New Development in sighting . . . sleek design . . . 4 X, wide field

The Leupold 4 X Pioneer gives you lighter weight . . . wider field of view (35 ft. at 100 yds). AND full 4 X magnification. It's fast, accurate, rugged. The Leupold 4 X Pioneer (5 years in development) is truly the finest scope made today.

The Scope with *all* the features:

- **Streamlined . . . 7/8" tube for lower mounting.**
- **Lenses — Hard Coated, finer optics.**
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- **Full 4 X magnification.**
- **Fixed reticle — always centered — choice of 5 reticles: post and lateral hair, tapered post, cross hairs, dot and beaded post.**
- **Light — scope weighs only 8 ounces.**
- **No condensation — nitrogen processed.**
- **Water-proof — sealed unit.**
- **Windage and elevation adjustments built into mount. Micrometer click elevation adjustment. Once zeroed in, Pioneer is there to stay.**

Price—
Scope and mount $77.50
Scope alone ... 57.50
With mount rings 62.50
For Dot Reticle add 10.00

For shooting pleasure, for accuracy, for everything you want in a scope and mount, get the Leupold 4 X Pioneer. The Pioneer scope is a sealed unit. Waterproof. Nothing to get out of order.

A lifetime service repair guarantee backs up each Leupold Pioneer. The Leupold 4 X Pioneer is precision-made by Leupold and Stevens Instruments, Inc., instrument manufacturers for over 43 years. Buy the Leupold 4 X Pioneer at your dealer or write direct. Write for literature.

Leupold & Stevens Instruments, Inc.
4445 N. E. GLISAN — PORTLAND 13, OREGON

GROCERY MONEY

Little Rock,

Editor:

Rather than miss an issue of your maga I am sending my grocery money to pay bill. This goes to prove I'd rather read RIFLEMAN than eat. Here's hoping I my next issue on time as I really may have "digest" it.

HAROLD MEDLOC

REPORT FROM HOPKINS

On safari in K

Editor:

You have treated me very kindly in presentation of my African articles. I that your readers will find them of inte

If there is an opportunity, will you a couple of corrections in the Septem article. Your typesetter has me mentio the .318 "Western Richards." That sh be Westley Richards. Also, there is the ference on the first page that we ca Purdey *double* rifles of .404 caliber. Actu both rifles mentioned are magazine a The .404 is always made up as a maga rifle—never as a double. The .450/40 the rimmed version of the .404 and is cartridge used in double rifles.

Our present safari is most enjoyable, the only thing bothering us is the situa at home.

DON HOPKI

MORE "ANONYMOUS"

Reading, Pe

Editor:

I have just finished reading the letter fr "An Anonymous Reader." I beg to disag

To begin with, an average reader sho stick to reading the funnies. But then ag the RIFLEMAN has pictures. The RIFLE is for average readers who have some kno edge of guns and ammunition and who wa to learn more about the same. It is also rifle and pistol shooters, hunters, gun coll tors, and civilian and military shooting thusiasts.

I had never seen a close-up picture knew how the M1 rifle functioned until read the article in the August issue of RIFLEMAN. If our country should be vaded (and I sincerely hope not) and civil would be called to fight and if I was hand an M1 rifle at least I would have some of how to use it.

And as for the cost of the RIFLEMA don't think you can get a magazine from country in the world that can compare w the RIFLEMAN either in price or quality.

WALTER A. CUNNIUS, Jr.

COMMON-SENSE DECISION

Park Ridge, Illi

Editor:

I want to congratulate the NRA for h ing reached a sound common-sense decis to pass up the convention and (nationa matches this year. With world conditio as they are, we certainly should not do a thing which does not contribute to the effi I'm glad that an outfit of which I am a me ber is taking the lead in being sensible ab it. More power to you.

CHARLES F. DENSFOR
Lt. Col., USAF

One to remember

Etched against the western sky he stands, with the afternoon sun outlining his magnificent antlers. A perfect shot . . . certainly one you'll remember.

You'll remember this moment long after you hang those antlers in your trophy room. Something else to remember is that a conservation program helped provide the deer for you to shoot. And today, game is on the increase in many parts of the country. By continuing to conserve now, you'll help assure more hunting in the future. Do your part by joining and supporting your local and national organizations for game restoration and preservation. E. I. du Pont de Nemours & Co. (Inc.), Explosives Department, Wilmington 98, Delaware.

N·R·A RANGER

HOW TO START A RIFLE CLUB

Free booklet about shooting—gives information on how to set up a rifle club in your own community... how to teach your group to have more fun shooting a rifle... how they can win Ranger Shooting Emblems. No obligation. Write: Sportsmen's Service Bureau, Dept. E-6, Sporting Arms & Ammunition Manufacturers Institute, 343 Lexington Ave., New York 16, N. Y.

DU PONT

REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

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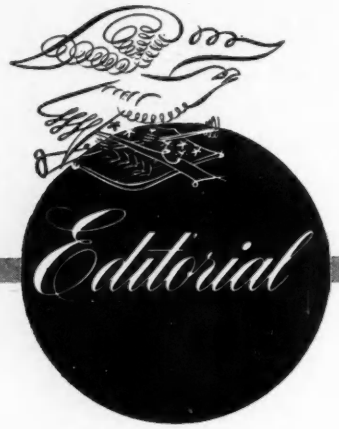


Armed, Alert . . . and Peaceful

You were probably too busy at the time to pay much attention, but during the last war the NRA had a direct hand in teaching about one-and-three-quarter million Americans how to hit what they aimed at with a rifle. In the years from 1942 to 1945 the NRA's 4,000 senior rifle and pistol clubs were in a singularly opportune spot as far as marksmanship training was concerned. The nation needed small-arms instructors. The NRA had them. The nation needed equipment for small-arms training programs . . . films, printed instruction, manuals, ranges on which classes could be conducted. The NRA had *them*, too . . . ready to go. Here are some figures that will give you an idea of the NRA's contribution, from the cancellation of the national rifle and pistol matches (1942) until VJ Day (1945):

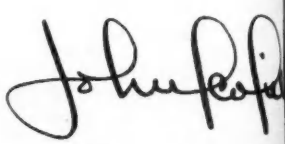
Pre-induction marksmanship training classes conducted by NRA club personnel: 2,862. Civilians trained in Army-approved basic small-arms firing: 158,956. NRA club-owned ranges made available for marksmanship training: 1,500. American communities involved: 1,278.

The figures are even more impressive when they become a part of the enormous job done in small-arms training within the Armed Forces. Four hundred and fifty qualified small-arms instructors were commissioned from the NRA's membership rolls to conduct small-arms training programs in the armed services. These NRA members directly supervised the small-arms training of one-and-one-third million officers and enlisted men of the United States Navy . . . of more than a quarter million officers and enlisted men of the Army's service forces . . . of 650,000 officers and men of the Air Forces . . . and of an undetermined number of officers and enlisted men of the United States Coast Guard. Total: Something in excess of 1¾ million men.

In addition . . . 500 civilian members of NRA rifle and pistol clubs served as foremen, inspectors, and toolmakers in small-arms and ammunition plants . . . 3,800 served as instructors in pre-induction marksmanship training classes throughout the country . . . 125 pistolmen served as guards and instructors in plants . . . 2,450 civilian club members served as structors, officers, or enlisted men of state guard, guard, Coast Guard auxiliary and auxiliary police . . . and 250 of the NRA's handloaders turned 1,643,900 rounds of otherwise unobtainable ammu tion for state guard units, police, and plant guards short, both the NRA and its affiliated clubs were *and prepared* to do a badly-needed job on short no That the NRA's wartime program played an impor role in the nation's over-all effort is attested by s ments from President Truman, Generals Mar Patton, Devers, Hershey, Holcomb, and the N King . . . and from top civilians Robert P. Patte and War Manpower Commissioner Paul V. McNu

With a record of that kind in one war, th sponsibility is obvious as we face what may be another war. The NRA must do its share in prepa the American civilian for the future . . . whether future turns out to be World War III, or mere continuing collection of small wars scattered over world. Already, cancellation of the NRA's conve and 1950 championships has echoed the beginning the 1942-45 program. And already in this, as in wars, a Marine Corps General has restated an idea is basic with us. Said Leatherneck General Ed Craig, after his troops had gone ashore at Pusan: looks like a rifleman's war."

This 1950-style training of the NRA's will to be different from the 1942-45 model . . . to do with a whole new set of national and world co tions. The 1950 program must be applicable only to the needs of national preparedness and the mediate demands of the armed forces, but to long-term problems as safety in the hunting fields and the basic concept of an armed, alert and *peac* America. The NRA's new program, as it unfolds ing the coming months, must be something more an answer to immediate needs. This time it must be a direct investment in a peaceful future. That we *can't* lose!



The All-'Round RIFLE

A slightly different slant on the theory of using one gun for everything from mice to moose... by the author of "Wildcat Cartridges*" and "Custom Built Rifles*"

By RICHARD F. SIMMONS

MOST VIEWS of the "all-'round rifle" concern the one gun which the writer believes contains more essentials for all-'round shooting than any other. Chances are, he will name a bolt action. The choice of caliber he proposes will depend upon the locality, the type of game to be hunted, and whether the would-be owner handloads or not. To me, that one-gun theory is all wrong. Let's go about it in a different manner.

First, let's eliminate the handloader. His number, in comparison with the total number of hunters, is quite small. That starts to break down the total of the bolt-action class simply because most handloaders use the bolt-action for safety reasons.

What about the 'automatic'? Before World War II we might reasonably have said that shooters trained in the Armed Forces preferred the bolt-action rifle to all others. Now, however, we have about seven million shooters trained in the use of a semiautomatic rifle! The interest of these men probably still favors this type of arm—especially if we consider the numerous queries mailed each month to the gun editors of our various sporting magazines inquiring into the possibility of using the .30-caliber carbine for hunting.

I think we are safe in believing that the .30-caliber carbine will never be placed on the shelves of sporting goods stores for sale to hunters. To begin with, this particular arm was built for one purpose only—to replace the .45 automatic pistol in the hands of soldiers riding in jeeps and motorcycles, and for officers who needed a light but effective weapon. Let's face it—the carbine was designed to kill human beings, not animals. The cartridge is best described as a modern .32-20. We all know that the .32-20 is a very poor big-game cartridge. True, it has killed plenty of deer in years gone by in the hands of experienced hunters, but so has the .32 rimfire. It has also wounded thousands of deer in the hands of inexperienced hunters.

Now, what do we have insofar as rifle choice is concerned? First we can generalize and say that World War I shooters (and most target shooters) will choose a bolt-action arm for hunting purposes. Shooters trained in World War II will want an auto rifle for hunting. And the meat hunters—the boys who go hunting with no thought but of bringing home the bacon—will generally use the lever action or pump action, and their combined number is enormous. So . . . we have millions of hunters using, or wishing to use, all four classes of rifle.

The ones who will suffer the most until new rifles are brought out to satisfy their needs are the fellows who want to hunt with a semiautomatic. If one of our large arms manufacturers would only see fit to bring out a lightweight automatic arm of .270 caliber, it is my humble opinion the orders would exceed the supply for ten years to come. A lightweight automatic rifle shooting a cartridge of .300 Savage or .30 Remington size necked to accept .270-caliber bullets of heavy enough construction to kill deer, small bear, antelope, and elk, would really fill the bill for the automatic rifle fans. Such a cartridge would be accurate, have very little recoil, be deadly if loaded with different weight bullets for different sized game, and would require only a lightweight gun to be fired from. All the .30-caliber carbine fans would be well taken care of by the production of such an arm.

But that's wishful thinking. Let's select an 'all-'round' rifle from those already available from our manufacturers.

First, remember that individuality is important. You should choose the style of rifle which is the easiest for you to hit game with. Just because soldiers use bolt-action and automatic rifles is no reason why you should force yourself to use one under hunting conditions. The Army has a reason for using such rifles. The bolt gun will stand a lot of abuse and punishment, and will operate even when dirty. The semiautomatic furnishes sustained fire power, which is important on a battlefield . . . but not for a hunter in the woods!

The hunting rifle is different. It is seldom that our life depends upon our rifle. Even so, most of them operate perfectly under hunting conditions if kept halfway clean. What we want is a gun that fits us—one that we can throw to our shoulder at an instant's notice, fire, load and fire again if we miss the first shot or two.

We should not get the idea that the pump or lever gun is out of date. Probably more game is bagged each year with these two styles of rifle than is taken with the bolt and auto class put together. If you can hit with 'em, then use them!

To make one gun the all-round gun you are almost forced to handload. Even then you will be limited to such extremes

*Wildcat Cartridges, New York, William Morrow & Co., 1947, 333 pages, illus.; Custom Built Rifles, Their Design and Production, New York, Stackpole and Heck, 1948, 184 pages, illus.

as shooting at small, edible game, or the largest of the dangerous game. So why not settle on a .22-caliber arm of the same style as your big-game rifle and use that for all plinking and target-shooting purposes (except serious target work). Think of the practice and training you will be getting all year in preparation for the big-game season. And nine times out of ten you would be shooting some kind of a .22-caliber rifle for plinking anyway. Why not make it a mate to your big-game rifle?

I say the all-'round gun is actually two guns.

Remington builds the only pump-action big-game rifle. This is the model 141 in .30, .32, and .35 Remington calibers. When a man uses one of the .22-caliber pump guns for off-season plinking, and then picks up his model 141 in .30 caliber and draws a bead on a deer that deer is not going to have any odds in favor of his getting away without being vitally hit.

If you are a pump-action fan order the Winchester model 61, or Remington Fieldmaster model 121 hammerless in .22 caliber, to go with the Remington 141 big-game rifle in pump-action style. There is one more .22-caliber pump rifle, the Winchester model 62, but it has a hammer which some pump action fans will object to, but which others will like because of its safety features.

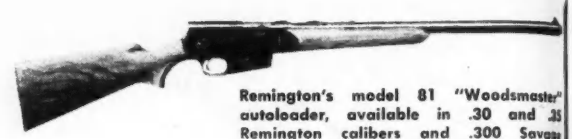
Now for the lever-action boys. The hunter who uses the Savage model 99, the Winchester carbine, Winchester model 64, Winchester model 71, or the Marlin model 366, as his big-game rifle, has but one lever-action .22-caliber rifle to choose. That is the fine little Marlin model 39-A, a wonderful practice and plinking gun.

In the big-game automatic rifle class we have the Remington model 81 in .30 and .35 Remington calibers as well as .300 Savage caliber. In Winchester make we have the model '07 self-loader in .351 Winchester caliber. If your choice is the Winchester '07 then your choice of .22 should be the model 63 Winchester, which is similarly built to the '07 in high-power caliber. Winchester also makes the model 74 self-loader .22.

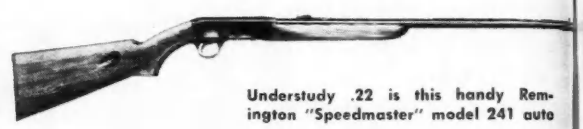
In the Remington line we have the Speedmaster model 241 autoloader and the model 550 autoloader; the H&R "Leatherneck" model 76; Mossberg model 151; Savage model 6; and Stevens model 76. Any of these .22 auto guns will give you good practice, but it is best to choose one that looks, operates and feels like its counterpart in big-game caliber.

Our last class is the bolt-action: the model 70 Winchester in big-game caliber; the model 325 Stevens in .30-30 caliber, and the new Remington model 721 and 722 in various calibers. There is no need to list all of the various .22 bolt-action style rifles from which one can choose a practice gun. Every firearms firm makes a number of different models. Just take your pick. It is not so much the model as the style that is important.

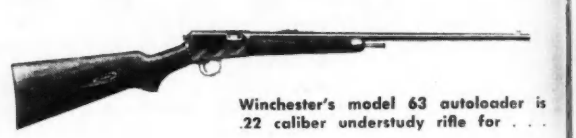
It is a simple matter to pick your .22-caliber rifle. The situation is a little different with the big-game caliber. If you live in a district where the largest game to be shot is deer and black bear, then the .30-30, .30 Remington, .300 Savage or .32 Winchester Special will take care of most of your hunting desires. If game the size of elk are to be shot occasionally then the .35 caliber, .30-'06, or .300 Magnum calibers should be chosen. If elk, moose, caribou and large bear are to be hunted with that particular rifle, then the .30-'06, .300 Magnum, .375 Magnum or .348 Winchester cartridges should be used. For the largest of game we have the 200-grain bullet in .300 Savage caliber in the Savage lever action; the 210-grain .348 caliber belted bullet in the Winchester lever-action; the .35 Remington with 200-grain bullet in Remington's pump and auto guns; the 225-grain bullet in .30-'06 caliber; the 225-grain bullet in .300 Magnum caliber and the .375 Magnum with *(Continued on page 38)*



Remington's model 81 "Woodsmaster" autoloader, available in .30 and .35 Remington calibers and .300 Savage

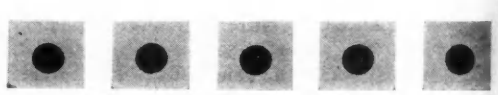


Understudy .22 is this handy Remington "Speedmaster" model 241 auto



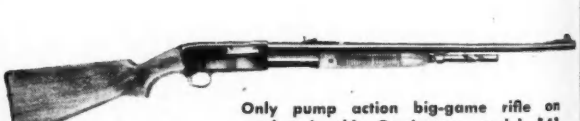
Winchester's model 63 autoloader is .22 caliber understudy rifle for . . .

the Winchester model 07 semiauto, available only in .351 Win. caliber



For pump-action fans, this Winchester model 61 in .22 caliber will provide needed off-season practice

This pump action is Remington's model 121 "Fieldmaster" repeater in .22 cal.

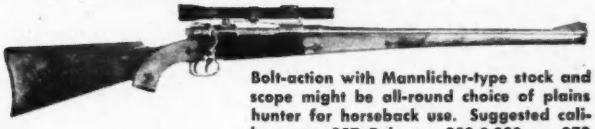


Only pump action big-game rifle on market is this Remington model 141

Another pump-action rifle in .22 caliber is this Winchester model 62

Stevens model 325 is an inexpensive bolt-action .30-30 rifle. Also available chambered for .22 Hornet cartridge

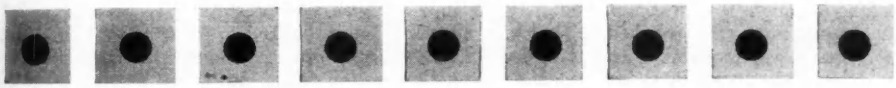
Remington's model 721 big-game rifle. Its mate, the 722, features a shorter action designed for .300 and .257



Bolt-action with Mannlicher-type stock and scope might be all-round choice of plains hunter for horseback use. Suggested calibers are .257 Roberts, .250-3,000 or .270

Winchester's model 75 is an excellent combination target and hunting .22, Scope is a Weaver with bridge mount

Another "customized" bolt action is this model 70 Winchester with 6-power Zeiss scope in Stith mount. Caliber is .270

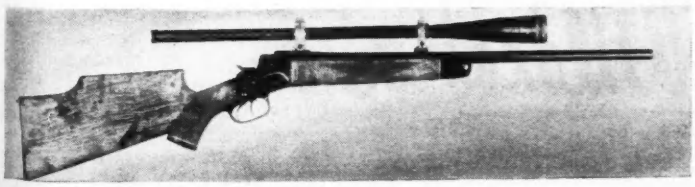


Only accurate lever action .22 available is this Marlin model 39A. Its use by many exhibition shooters vouches for its excellence

Savage model 99, made in a variety of calibers, remains one of most popular big-game rifles in US. Its very popularity makes it something of an "all-'round" rifle

Winchester model 64 is chambered for .25-35, .30-30 and .32 Winchester loads

Marlin's latest big-game rifle is this model 336 A-DL. Receiver is completely enclosed with exception of ejection port



Under certain circumstances even a custom-built single-shot could serve as an all-'round rifle. This one is built on a Remington-Hepburn action, with a target-type telescope sight

In this remarkable photograph, taken by guide Stan Lawrence-Brown, a group of hunters moves up on a herd of buffalo

Letters of a Wildcatter*

by DONALD S. HOPKINS

CONCLUSION

Dear Charlie and Elmer:

This portion of Tanganyika has much more thorn scrub than had the Masai Country of Kenya; and shooting is quite difficult when an animal is running through this stuff. I missed a roan antelope completely the other day. He spooked before I could get a standing shot, and it was impossible for me to connect in two attempts as he flashed between the thorn trees at over three hundred yards. Marge missed a lesser kudu and is quite upset about it since it is her first miss with the .30-'06 on the trip. A long, tough shot just at dusk, and a miss under this condition is not to be condemned.

Marge and a rhino caused us all a bit of excitement the other day. My wife left the hunting party to seek the seclusion of a green bush. She is an optimistic soul and refuses to carry her rifle on these bush hunting expeditions in spite of our pleas and warnings. Therefore I dragged after her to play bodyguard as I feel duty bound to do in these circumstances. The .404 was the handiest gun, and I grabbed it. Just before our arrival at the bush, a glance at a thicket a hundred yards to the left revealed a big rhino emerging directly at us. In answer to my suggestion that we leave the country to the rhino, Marge politely replied that it was her turn for a shot at a rhino, and her gun, and would I pass it over to her. That left me feeling plumb naked in front of that rhino and I yelled *"Lete mzinga, upesi!"* which translated, literally means 'Bring the cannon fast!' In a few seconds the .465 Purdey was in my hands and I felt comfortable again. Our white hunters had accompanied the gun bearer and we stood in a line as the rhino rounded a bush and saw us about 35 yards from him. Without a yes, no, or go to hell, he gave one glance and started toward us full tilt. Marge socked him in the chest at 25 paces, spun him around and put four more shots into him. Stan let him have one as he whirled but I do not think this shot was necessary. Of course it was too close to take a chance, because Stan had seen one rhino absorb 18 hits before succumbing when he was out with Gene Holman. The beast may not have been charging but it was too close to do anything but shoot. We were straight downwind and the rhino could not have smelled us. At any rate, it is now possible for me to say ' I told you so' to my better half; and that occasion happens seldom. Marge was calm as a cucumber throughout the entire affair.

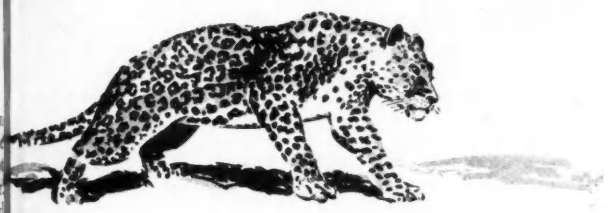
After the rhino mix-up, which occurred in the Rift Valley north of Mto-Wa-Mbe, we headed west for lion country. I am anxious to test the .334 on a lion. When passing through Mto-Wa-Mbe, we just missed your friend Dr. Olafson and

*Wildcat: Any custom-made or non-standard cartridge, in distinction to those made by arms companies

his wife and the Sergels, who have been camping for some time at the edge of that town. It was reported that they are off after elephant or lion under the guidance of a Tanganyika white hunter.

This trip has been most interesting since our route led us past the famous Ngoro Ngoro crater (two thousand feet deep and twelve miles across the bottom) and thence over the Serengetti plains. They are dry as a bone and it was necessary to make a waterless camp in the center of them. A following wind which billowed the dust into the cars made the journey rather unpleasant. The lack of water has driven the game westward and hardly a handful of animals has been seen over the entire stretch. At times this area teems with game. A white hunter has to have good equipment and must know his stuff in this type of country. A breakdown here would really be serious, for there isn't a drop of water for over a hundred miles.

Best,
Don



Dear Charlie and Elmer:

A couple more camps have produced some excellent game for us—three large, heavily-maned lion, a cheetah, a decent rhino, and a couple of nice eland. Two of the lions succumbed to the .334 and one to the .30-'06. Marge made a beautiful shot on her lion as it ran quartering away from her. I never saw anything move so fast as this lion. She shot twice and hit him twice, once through the heart and once a bit farther back. The lion ran about 75 yards and dropped dead.

My two lions were shot at about a hundred yards. One of them was lying in the grass facing me. A 300-grain soft-nose bullet in the center of the chest made him mighty sick, but he recovered partially and received two more before dying, one in the rump as he faced away from me and the other in the chest. The only bullet recovered was the frontal one in the chest. The second lion encountered some rather poor shooting on my part. The first hit was a couple of inches to the rear of the shoulder instead of in the shoulder as he stood quartering toward me. As he ran quartering away the second shot was through the paunch and the third shot was through the spine. The last hit was with a shallow cavity point bullet, made from the 300-grain solid. It penetrated very well, yet smashed up the spine and then continued through to cut off a couple ribs. The performance of this bullet is considerably better than that of the 300-grain soft-nose.

The cats seem to be more susceptible to initial shock than some of the antelope family although they appear to recover quickly and absorb a lot of punishment before dying. They can be killed with a small gun if hit right; but a man who uses a small gun is unwise. The point is that the hunter must have a weapon large enough not only to kill, but to be reasonably certain of wounding severely with the first shot and of stopping the animal if he decides to come. Reports have reached me of an American who is going to tackle lions with his .228 Ackley because it has killed deer and elk for him satisfactorily. He probably can get away with it all right, but if anything goes wrong he may feel a bit concerned facing a 500-pound lion with a .22-caliber rifle. My experience in this country strengthens my opinion that speed cannot take the place of weight when applied to bullets and animals.

In this camp I redeemed myself for missing my first cheetah. Had a crack at a cheetah streaking through the grass well beyond two hundred yards away. Hit him the first time and smashed his hip. Then trailed him up and finished him with a neck shot. He dragged himself only a few yards after receiving the first 300-grain soft-nose bullet. Nice shock exhibited here. I consider this one of the two luckiest shots I have made on this trip.

The .334 fixed a decent rhino the other day. During a hunt after lion, this beast suddenly popped out of a bush about a hundred yards ahead of us. There was no time to get the .465, so a couple of solids were pushed into the magazine for the benefit of this armor-clad stranger. The first one landed high in the shoulder and he turned away. Two more shots in the rump stopped him, but did not throw him off his feet. He spun around and got four more in the low shoulder and chest region which settled things nicely. One of these bullets was a shallow cavity point bullet which penetrated almost clear through sideways just back of the shoulder. It was difficult to place the shots perfectly since the beast was running and kicking up a big cloud of dust during the entire fracas. These big animals can take a lot of pounding when they get steamed up. Some of these solid 300-grain bullets went clear through the rhino.

Predators have stolen cached sheep meat from me, but now a cat has stolen my dinner from under my nose, or one might say, gun barrel. We had been hunting lions all day in a rather thick thorn brush and bushy country without seeing one. At five o'clock I knocked over a topi for camp meat. The antelope, shot through the heart, ran about a hundred yards before collapsing. As we approached the carcass, my gun bearer whispered "*simba*". Out of a thicket stalked two big lions and two lionesses and grabbed the dead topi. We got into the car and drove up to within 25 or 30 yards of the thieves. Shouts and horn toots merely elicited snarls and dirty looks from the burglars, so we left the spoils to the victors and departed to hunt dinner elsewhere. It was too bad that the lions had manes too short to make fine trophies. It would have afforded me great satisfaction to sock one of them. Canned wieners were our entree for dinner.

Best,
Don

The author and a pair of lesser kudu trophies

Dear Charlie and Elmer:

Our hunt is about finished. This five months safari has been a grand experience, and the last three months, spent with Stan Brown and Dave Lunan, have been most pleasant. Some very decent trophies have been secured, and the hunt has afforded me an excellent opportunity to test the .334 OKH with various types of bullets and to observe duplex loads under tropical conditions. No attempts were made to secure a large bag of game and only one or two specimens of each type of game was killed by each of us except when more were needed for the food supply. For instance, we saw about one hundred and ten lions. At least ten of these were big fellows with good heavy manes. We shot at and killed only four of them, attempting to select the choicest of the lot. Less than twenty percent of our total allowable limit of game was killed.

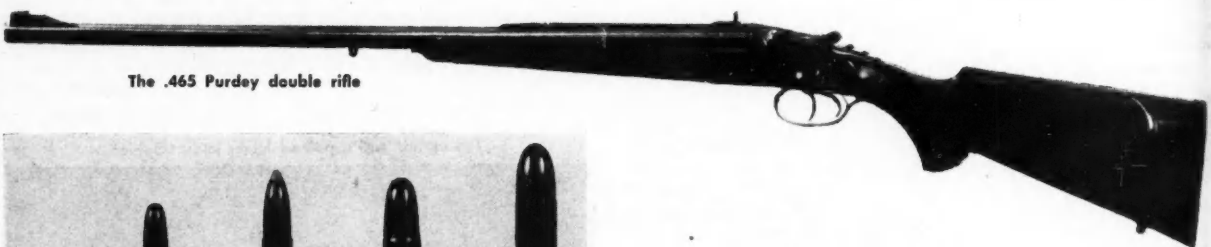
Several things have impressed me forcibly during our sojourn here: 1) the extreme tenacity of life of the game; 2) the difficulty of imparting shock to many of the varieties; 3) the necessity to hit bone—the neck, the spine, or brain—to knock down most of the animals and keep them down; and 4) the advisability of long bullets of good weight and sectional density to smash through heavy bone and get into the life of the animal.

The performance of the .30-'06 has been astonishingly good. The 220-grain Western tip-of-lead 300 Magnum bullet, driven at magnum velocities ahead of duplex loads, has been the finest and most consistent performer of any bullet I ever saw. It expands properly at all distances up to 500 yards, its trajectory is quite flat, and never once have the jacket and core parted company. Undoubtedly the excellent characteristics of this bullet have had much to do with the fine results secured with this rifle. Never a misfire or sign of pressure with the duplex loads.

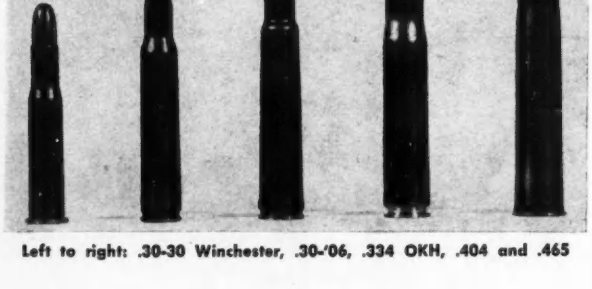
The .334 OKH has given a splendid account of itself although it has been somewhat handicapped by some of the bullets used. The 250-grain copper-tipped expanding bullet, and the 300-grain soft-nose bullet, both by Jeffery, have a tendency to expand too rapidly and to fly to pieces too soon, although both disrupt plenty of flesh in the animal. I felt that both of these missiles expanded too quickly to be quite proper for the big stuff. The shallow-cavity bullet, made from the 300-grain solid, gave first class performance. A bullet of 270 or 280 grains for the .334, having expansion characteristics equivalent to the 300-grain shallow-cavity bullet or the 220-grain tip-of-lead .300 Magnum bullet, would be a dandy and would suit me to perfection for use in the .334. The shallow-cavity bullet gave about 50 or 60 percent greater penetration than did the 300-grain soft nose. In addition, I should like to see a satisfactory bullet of about 230 to 240 grains weight for the .334. It should be fast and very flat for these long shots across the open plains. Bullets should have cannelures about one third of the distance back from the tip, stiff cores, and heavy jackets at the base. Little lead should be exposed at the tip. Possibly a wire-point bullet, or a bullet similar to the Westley Richards patent capped bullet would be satisfactory. A bullet similar to the .285-caliber 180-grain OKH bullet as made for us by Western Tool and Copper Works would be a fine pattern to follow in making a satisfactory .334 bullet. While the .334 is too light as a stopper for the big stuff, it will kill them when proper bullets are properly placed. It was a splendid weapon for lions and leopards, and one took considerable comfort from the fact that the big bullet would kill the antelope even if not placed absolutely correctly.

Both the .404 and .465 performed well, although the solid bullets of both calibers deformed more than they should have. They need heavier, stiffer jackets for the solids, although so few head of game were killed with these rifles that there was not too great an opportunity to judge their performance. The .404 could be improved with a heavier bullet and an increase in the powder charge of 15 to 20 percent. The .465 is a great gun, and I should want nothing smaller as a stopper in this country. Every elephant hit in the head with it was knocked off its feet and stayed down.

All guns and cartridges functioned perfectly at all times, as did the scopes and mounts. The two Purdey rifles were beautifully balanced, and handled like a charm. Never have I seen a big double rifle so light, handy and endowed with such a feeling of "aliveness" as this Purdey .465 that weighs one ounce over ten pounds.



The .465 Purdey double rifle



Left to right: .30-30 Winchester, .30-'06, .334 OKH, .404 and .465

Generally, shooting conditions were good, although occasionally the extreme heat and accompanying fatigue affected our shooting noticeably. On two or three occasions, after a long, hot, hard day, I missed shots at game which would not have been difficult under normal conditions. The heat made me so extremely tired that I simply could not hold steady two or three times during the trip. Luckily it was only ordinary game for meat that was missed under these circumstances.

When I return, let us attempt to secure some improved bullets for the .334 and let us produce bullets and loads for the .424 OKH that will make it a real elephant, buffalo, and rhino gun.

Wish you could both have been with me. Your presence would have added greatly to our pleasure.

Best, Don

on Hopkins' second lion, 00 yards, .334 OKH. 300- rain soft-nose penetrated ody. Animal ran a short stance before dropping

rge's second lion at yards, .334 OKH. 300- in cavity-point bullet ashed spine and ribs, pped animal quickly

aterbuck, 150 yards, .30-'06. Western 220-grain tip-of-lead bullet Duplex load entered shoulder; as found in neck on opposite side

, at 500 yards, .30-'06. ern 220-grain tip-of-lead in Duplex load went gh shoulder and into bone of the animal

Don Hopkins' second rhino, 100 yards, .334 OKH. 300-grain shallow cavity-point bullet in low at rear of shoulder, and passed entirely through the animal

alla, at 150 yards, OKH. 300-grain soft- bullet entered front eck, near base; found opposite shoulder

alla, 200 yards, '06. 220-grain Peters ed bullet broke back- e, ranged forward tly. Found under skin

Oryx, at 300 yards, .30-'06. 220-grain Western tip-of-lead in Duplex load killed instantly, passing through neck

Hopkins' second ele- nt, 20 yards, .465. First et, 480-grain solid, en- d ahead of ear hole, etrated half the skull

n antelope, 250 yards, OKH. 300-grain soft- bullet entered low shoulder, passed through rt. Animal crawled ut fifty yards and died

Don Hopkins' second elephant, 20 yards, .465 Purdey. 480-grain solid entered side of head about 3 inches ahead of and 4 inches above ear hole; deflected into top of skull

Don Hopkins' first elephant. 8 yards, .465, 480-grain solid, frontal head shot below eyes, stopped foot from brain at base of tusks

Zebra, 200 yards, .30-'06, 220-grain tip-of-lead boattail, Duplex-loaded. Bullet entered rump and ranged forward, coming to rest against far shoulder

Wart hog, 100 yards, .30-'06. 220-grain tip-of-lead bullet in Duplex load killed instantly, ranging forward through ribs

Rhino, 30 yards, .465, 480-grain solid passed through lungs back of shoulder, stopped under skin on the opposite side

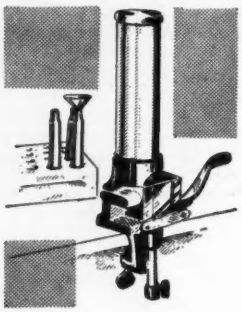
Elephant, dead, shot between eyes with .334 OKH 300-grain soft-nose. Bullet recovered under skin at back of the animal's neck

Don Hopkins' first lion, 100 yards, .334 OKH. Shot went into base of neck from front; 300-grain soft-nose was found under skin of the right shoulder

Marge's roan antelope, 125 yards, .30-'06. 220-grain Western tip-of-lead bullet, Duplex load, showed perfect performance in a low shoulder shot

Don Hopkins' greater kudu, 300 yards. .334 OKH 300-grain soft-nose bullet killed instantly, passing through backbone to rear of the animal's shoulders

Zebra, 225 yards, .334 OKH. 300-grain soft-nose bullet in high shoulder shot. Instant kill



LOADS FOR THE .218

This article on .218 Bee loads is another in an important RIFLEMAN *series covering popular rifle and pistol cartridges.*

Preparation of the material for the article was handled jointly by the NRA's Al Barr and M. D. Waite, the H.P. White Company of Cleveland, Ohio (see RIFLEMAN, *November 1948, page 21), and the Winchester Repeating Arms Company. The velocity and pressure tests were made in the Winchester laboratories. Five rounds of each of the loads listed in Table 1, with powder charges measured carefully and bullets weighed to within plus or minus .15 grain, were checked for average velocity figures at 10 feet. The loads were tested for pressure in a 23.5-inch barrel, of .219-inch bore diameter and .224-inch groove diameter, with six grooves of one turn in sixteen inches. Velocities were measured on an electronic counter chronograph.*

IN THE AMERICAN RIFLEMAN of June 1938 (page 47), Fred Ness discussed the introduction, at that time, of a model 65 Winchester lever-action rifle chambered for the new .218 Bee cartridge. He mentioned that the cartridge was at least two years old but had just been announced.

Only three other rifles have been available commercially for the .218 Bee round. One of these was the Winchester model 43 bolt-action rifle introduced about April 1949, the model 65 lever-action having been discontinued in 1947. The others are the recently announced Z-B short-action Mauser, made in Czechoslovakia and sold in this country by the Continental Arms Corporation, 697 Fifth Avenue, New York 22, New York, and the L-46 Finnish SAKO, sold by Firearms International, Inc., 1526 Connecticut Avenue, NW, Washington, D. C.

The .218 Bee cartridge is a modification of the old Winchester .25-20 repeater case, with .22 Hornet bullets. Its ballistic advantage over the Hornet at the time of its introduction is apparent from the following 1939 tables:

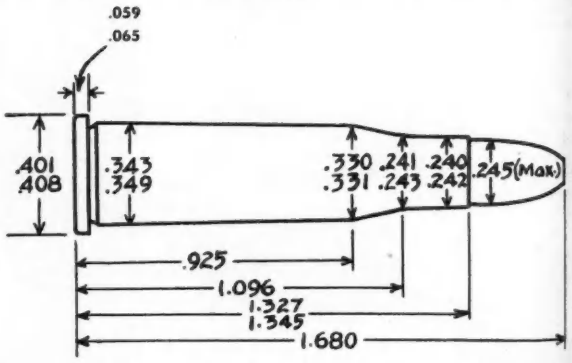
	Velocity at Muzzle (f/s)	Velocity at 100 yds. (f/s)
.218	2860	2260
.22 Hornet	2400	1952

The use of the .218 Bee in a lever-action gun instead of in the Hornet's bolt-action type increased its appeal to many small-game hunters. In recent years, the varmint shooter has shown a marked preference for rifles lending themselves readily to telescopic sights. This situation was responsible, in part, for the discontinuance of the model 65 Winchester and the introduction of the bolt-action model 43 Winchester.

At present, .218 Bee ammunition is available only in one high-velocity loading with a 46-grain expanding bullet. Since the rated muzzle velocity is still 2,860 feet per second, it no longer shows any great advantage over the Hornet, whose muzzle velocity has been increased to 2,650 feet per second.

When selecting .218 Bee cases for reloading, one important factor should not be overlooked—the difference in capacity between cases made by Remington or Peters and those made by Winchester or Western. When the bolt-action 43 Winchester was in the development stage, considerable extraction difficulty was encountered. To overcome this problem, Winchester and Western altered case construction by making thicker walls and head, thus cutting down the capacity. Remington and Peters solved the same problem by a reduction of chamber pressure. Both changes served to reduce the degree of case expansion, which was causing the extraction problem, but they resulted in a difference in case capacity which was in some instances as high as nine percent between various brands. While this difference seems small, it can prove hazardous when maximum loads are being used. A reduction of air space always increases pressure. When maximum loads for the Remington or the pre-model 43 Winchester and Western cases are used in new Winchester or Western brass, pressure levels will exceed safe limits.

One slightly odd characteristic of the .218 Bee cartridge is that frequently, when handloading for it, quite heavy loads seem to give the best accuracy performance. In fact, hand-



Figures of maximum and minimum dimensions of .218 Bee cartridge are averages of actual measurements taken from factory ammunition

loaders have been cautioned against the use of some loads which have been published in handloading handbooks and the RIFLEMAN. One load using 45-grain Sierra bullets and IMR 4227 powder, which we have found very accurate in two different model 43 Winchester rifles, when checked for pressure, recorded slightly more than 56,000 pounds per square inch, which definitely is too high. Other shooters found the load excessive in the same model of rifle. Some years ago, when trying out the .218 Bee cartridge in a beautifully made low-wall Winchester single shot, we found that the same heavy loads gave the best accuracy.

The RIFLEMAN, November 1949, page 52, published maximum recommended loading data for the Bee as suggested by the Winchester Repeating Arms Company. So far all these loads have proven satisfactory, giving no definite indications of excessive pressure. Almost invariably the loads recommended by Winchester use less powder than other loads which we have developed for three or four different

.218 Bee rifles. These heavy loads, if used, should be worked up carefully for each individual rifle, as experience has shown that, with heavy powder charges, pressure seems to rise quite rapidly in this good little cartridge.

It will be noted in Table 1 that all loads fired for pressure and velocity show favorable pressure figures, but quite a few are low, indicating that many times when the powder charges were cut the reduction was greater than necessary.

Usually IMR 4227 and Hercules No. 2400 are the recommended powders for the little .218 Bee case. True, they are perhaps the best obtainable for lighter bullets, but when using heavier 50- and 55-grain weights IMR 4198 seems to be outstanding. Usage has shown that full-power loads with 4198 and the heavier bullets are very accurate in the little .218 Bee cartridge. In fact, it hardly seems possible to get enough 4198 powder in the case to cause really excessive pressure above the safe working limit. However, when using a slightly compressed load with 55-grain bullets, pressure might be about maximum. Fifteen grains of 4198 powder has been one of our favorite loads with 44-, 50- and 55-grain bullets. The reasons we haven't used more powder with light bullets is that the case won't hold it.

Quite often when conducting these pressure and velocity tests something unusual occurs. A good example is a comparison of loads 7 and 8, in which the same weight of bullet was used with the same powder charge. The only difference was a slightly increased seating depth for the blunt Sierra 45-grain Hornet bullet. For some reason there was quite a noticeable increase in velocity for the Hornet bullet at only a reasonable increase in pressure. The Hornet bullet has a longer bearing surface and is built with a thinner jacket to expand properly at Hornet velocity. That feature, plus the slight increase in seating depth, are the only apparent reasons for the several hundred feet per second higher velocity obtained with the Hornet bullet.

To show a trend as to what one-half grain of powder will do in the .218 Bee case, loads 12 through 16 should be noted. Each one-half grain increase of powder gave an increase in velocity of 60 to 140 feet per second with but a gradual increase in pressure. This particular test may give an idea of what might be expected if some of the milder loads are increased by as much as one-half grain to one grain.

A direct comparison in the difference in velocity and pressure with Hercules 2400 and IMR 4198 will be found in loads 16 and 17. The 2400 load showed higher pressure, but the 4198 load showed about 300 feet per second increased velocity. This comparison, with others in the table, would surely indicate that 4198 should not be overlooked when loading the .218 Bee.

When handloading for the .218 Bee, particular attention should be paid to the variation in cartridge case capacity. Practically all of our previously developed handloads were made up using pre-war brass, which may be one reason why the loads we developed were found to be perfectly safe in our rifles. When attempting to develop full loads in the .218 Bee, it would be advisable for the handloader to obtain different makes of brass—if possible—and sift a few cases level full of a given powder and determine the variations in case capacity, and then load accordingly. Unfortunately, all types of pre-war and post-war brass were not available when these pressure and velocity tests were made; however, all loads given in Table 1 were made up using post-war brass.

Very little trouble is experienced in handloading for the .218 Bee, although cases do stretch slightly if used frequently, particularly if there is a slight excess of headspace in a rifle. When cases stretch, they should be trimmed to a maximum length of 1.345 inches, and it would be wise to trim them at least .005 inch shorter than that figure. There is no need to trim cases more than .010 inch less than the 1.345-inch length.

Factory ammunition in the .218 Bee is loaded moderately light, as the cartridge is used in the model 65 Winchester lever-action rifle and also in the relatively light bolt-action model 43 Winchester. Maximum pressure should never exceed 47,000 to 48,000 pounds, although some of the loads which we have used actually showed pressure figures of 55,000 to 66,000 pounds. Naturally these loads are not listed or recommended, but all loads in Table 1 show reasonable, safe pressure figures for any good .218 Bee rifle.

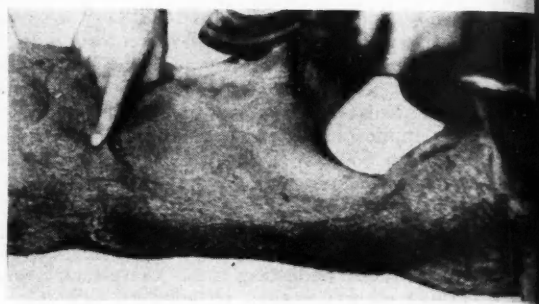
Unfortunately, relatively few reduced loads have been developed for the Bee. When using gas-check bullets and light powder charges of 4759 and Hercules Unique, a good recommendation is to follow any loads for the .22 K-Hornet cartridge found in the reloading handbooks. Even .22 Hornet loads may be increased from one-half to one grain powder with lead bullets and light loads as a starting point for the Bee. Around 4 grains of Hercules Unique with a 45-grain gas-check bullet such as the Ideal 225438 makes a good Bee load. About 7 grains of 4759 would make a good starting point with the same bullet. Other good medium velocity loads with similar bullets are 7.5 grains of Hercules 2400 or 8.5 grains of DuPont 4227. ◆ ◆ ◆

Table 1: Pressure and Velocity for .218 Bee Loads

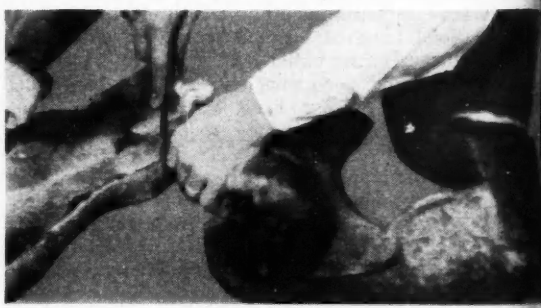
Load	*Weight (grain)*	*Bullet Type*	*Bullet Diameter (inch)*	*Seating Depth (inch)*	*Powder Charge (grains)*	*Powder Type*	*Lot No.*	*Primer*	*Case Make*	*Velocity*	*Pressure*	*Remarks*
1	41	Sisk SP	.223	.075	14.5	4227	15C	RA 6½	WRA	2963	43,060	Accurate
2	41	Sisk SP	.223	.075	14.5	4227	15C	WRA 116	WRA	2989	43,800	Accurate
3	45	Sierra SP	.224	.135	10.0	2400	....	WRA 116	WRA	2328	34,040	Mild load
4	45	Sierra SP	.224	.135	11.0	2400	....	WRA 116	WRA	2554	40,900	O.K.
5	45	Sierra SP	.224	.150	10.5	4227	15C	WRA 116	WRA	2509	34,380	O.K.
6	45	Rem. SP	.224	.225	11.5	4227	15C	WRA 116	WRA	2413	35,980	O.K.
7	45	Sierra SP	.224	.150	12.0	4227	15C	WRA 116	WRA	2357	37,980	Good load
8	45	Sierra Hornet	.224	.205	12.0	4227	15C	WRA 116	WRA	2553	40,640	Excellent
9	45	Sierra SP	.224	.135	15.0	4198	30	WRA 116	WRA	2674	34,060	Mild load
10	50	Sierra SP	.224	.179	10.8	4227	15C	WRA 116	WRA	2277	37,020	Mild load
11	50	Sierra SP	.224	.179	11.0	4227	15C	WRA 116	WRA	2328	36,800	Mild load
12	50	Sierra SP	.224	.179	8.0	2400	....	WRA 116	WRA	1945	22,675	Low Pressure
13	50	Sierra SP	.224	.179	8.5	2400	....	WRA 116	WRA	2005	27,960	O.K.
14	50	Sierra SP	.224	.179	9.0	2400	....	WRA 116	WRA	2149	31,640	O.K.
15	50	Sierra SP	.224	.179	9.5	2400	....	WRA 116	WRA	2244	35,880	O.K.
16	50	Sierra SP	.224	.179	10.0	2400	....	WRA 116	WRA	2310	38,160	O.K.
17	50	Sierra SP	.224	.179	15.0	4198	30	WRA 116	WRA	2618	35,700	Accurate
18	55	Sierra SP	.224	.243	13.0	4198	30	WRA 116	WRA	2310	33,060	Mild load
19	54	Sisk Niedner	.224	.201	13.5	4198	30	WRA 116	WRA	2412	34,064	Mild load
20	55	Sierra SP	.224	.243	14.0	4198	30	WRA 116	WRA	2474	37,700	Accurate
21	46	Commercial load	....	....	....	....	....	.....	.....	2754	43,850	O.K.

Mount Your Deer Head

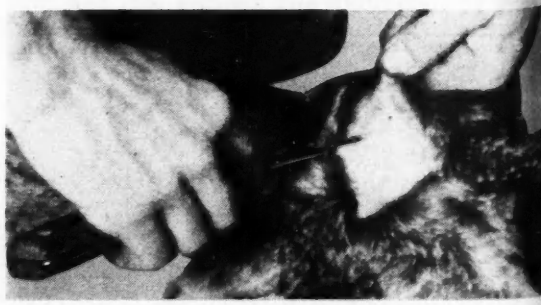
Photographs for
THE AMERICAN RIFLEMAN
by Charley Niehuis



1 The step-by-step process of preparing your buck's head for mounting begins with the removal of the scalp. Jeff Sievers, expert taxidermist of Phoenix, Arizona, is pictured in the following series of photographs. Assuming your buckskin was removed whole from deer carcass, the throat not cut, and the neck disjointed near the head, you arrive in your worshop with the buckskin and head attached. To make a full shoulder mount (left) it is necessary to cut the cape full, making the separating slash just back of the shoulders as indicated in the photograph



2 The deer hide should be folded evenly along the back. Your knife should be sharp so that a straight, clean cut is made



3 The first step in skinning out the head of your deer is to make a V-shaped cut from the base of one antler to the other

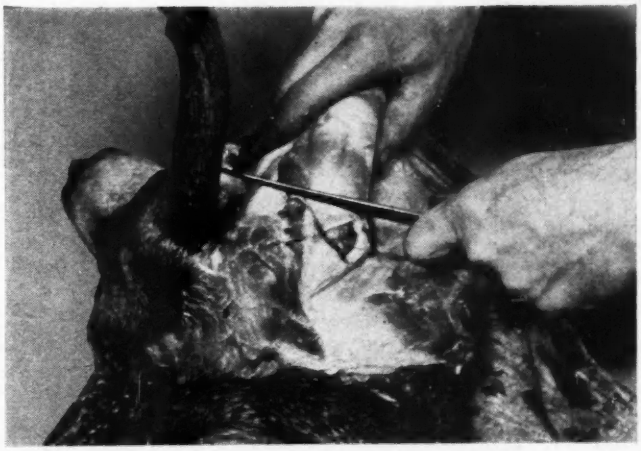
WHY not mount your own deer head this fall? It's not as hard as it looks, if you'll follow this step-by-step picture series.

First, a word about preparing the head skin after you remove it from your buck. Jeff Sievers, the Phoenix taxidermist who's shown in these pictures, recommends sending the head skin to a qualified tannery. For a few dollars it will come back properly tanned, pliable, and thinned to the right degree for easier working when you get to the mounting process.

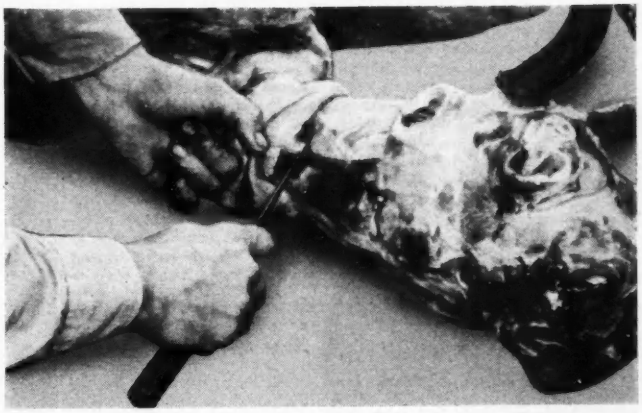
If you decide to do the tanning yourself, remove all fat and flesh from the skin, then put it in a saturate salt solution and add not more than two ounces of alum per gallon of solution. Keep the skin immersed in this bath for several days, agitating it at least once a day until cured. After the home tanning process is completed the scalp should be worked on a fleshing board (page 22) until pliable, and the thicker sections shaved down with a sharp draw-knife.

A RIFLEMAN "How to do it"

4 The scalp is then slit the length of the back of the neck. Hunters experienced in saving trophy heads make this cut in the field when skinning out the deer. They never cut up the front part of the throat, nor do they cut the throat to bleed their deer. Thus, in the finished head mount all the sewing is in the back, out of sight of the casual observer



7 The scalp is skinned away from the back of the head and from around the antlers until the base of the ear is exposed. This is cut off close to the head



8 Another spot at which care must be used in removal of the scalp is around the mouth, lips and nostrils. As much of the skin and lip membrane is retained as possible.

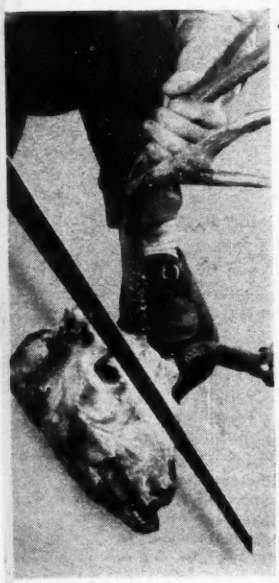
5 After the first two cuts are made, the scalp is loosened around the antlers. An ordinary screwdriver is an excellent tool to use in prying the skin away from the base of the antlers

6 The balance of the skinning of the head is done with the aid of a thin-bladed and sharp knife

9 The next step in the preparation of a buck's scalp for mounting is to turn the ears inside out. The outside skin of the ear is separated from the adhering and supporting cartilage with thumbs, fingers or a blunt instrument such as a spoon. A taxidermist's tool is made for opening the ear or separating the cartilage from the skin covering the outside of the ear. The tool is a spreader, acting just the opposite of a forceps. But a good job can be done with your thumbs and the simple tablespoon

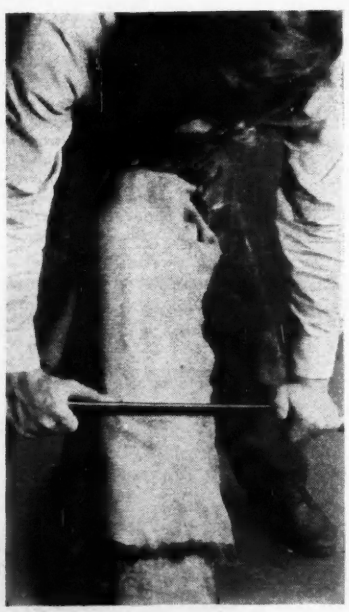
10 The ear-turning operation is completed here. Notice how the attached cartilage and the skin of the ear form a cone. The cartilage is left attached like this until the tanning of the scalp is completed.

11 Before the scalp is sent to the tannery, it should be thoroughly and generously salted. Spread salt over the raw surfaces, taking special care to work it well into the lips, eyes, ears and wherever decay might start first. To roll, fold the turned ears in toward each other, then roll, making a neat, tight bundle. This can now be stored in a cool place until shipment to the tannery or until your tanning solution has been prepared

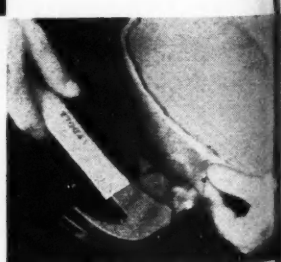


12 An ordinary saw can be used for cutting the antlers from the skull. The cut is made through the upper third of the eye sockets so that a good portion of the forehead bone is retained.

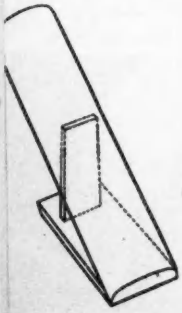
13 If you plan to do your own tanning be sure to 'flesh' the scalp thoroughly, removing all surplus fat and tissue. It is done rather easily in this manner. The stroke with the dull scraping knife is made away from you. An ordinary, old-fashioned ironing board serves very well as a fleshing stand or board



14 The actual mounting of your trophy begins with the preparation of the head form. A baseboard has to be fitted into the neck of the form. This serves to hold the form to its proper shape and as a base for the attachment of a hanger. The head form is placed on the board as illustrated and then outlined with a pencil



15 When finished, the baseboard should slip neatly into the open end of the head form. It is then secured, either with screws or nails



16 A hanger is attached and will serve later to hang the finished trophy on the wall, but its immediate purpose is to assist in the work of preparing the trophy

Taxidermist's supplies (head forms, glass eyes, ear forms) are available from:

Van Dyke Supply Co., Wessington Springs, South Dakota.

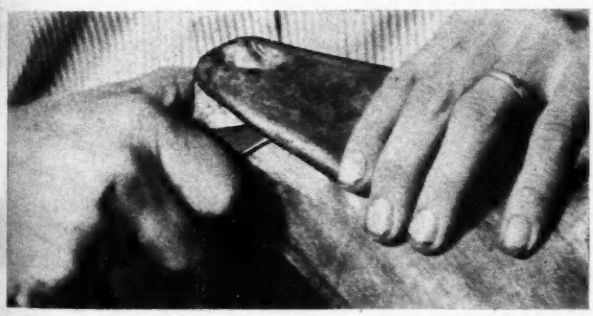
Northwestern School of Taxidermy, Harney at 12th, Omaha 2, Nebraska.

Jonas Brothers, Inc., 1037 Broadway, Denver 3, Colorado.

Deerhead skins can be sent for tanning to:

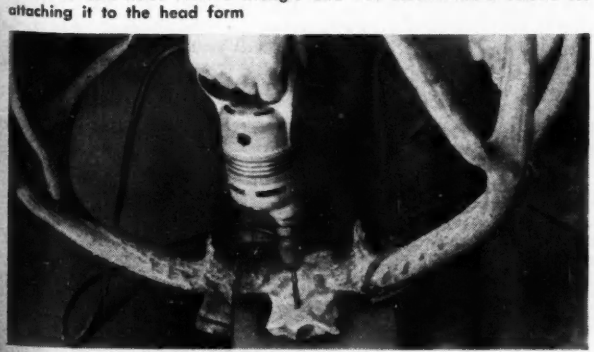
Crosby, Frisian Fur Company, 752 Lake Ave., Rochester, N. Y.

17 The skilled technician will cut slots, either with a knife or chisel, in the lower corner of the eye sockets to accommodate the tear duct which was retained in the scalp



18 Too, the lower lip of the mouth is trimmed. A thin slit is made clear through at this point, making an actual mouth in the form. The reason for this will be illustrated later. Do not make this a wide cut

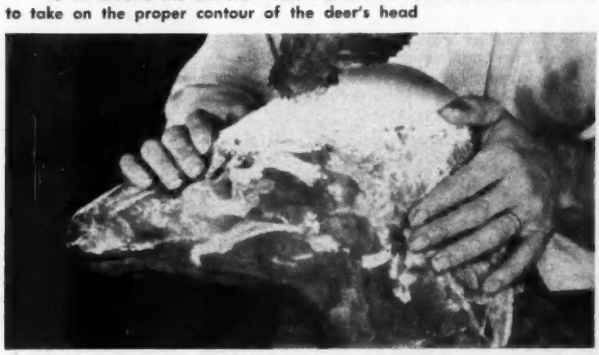
19 Preparation of the skull and antlers is next. One hole is drilled through the forehead and two in the skull in back of the antlers. The three drill holes form a triangle and will accommodate screws for attaching it to the head form

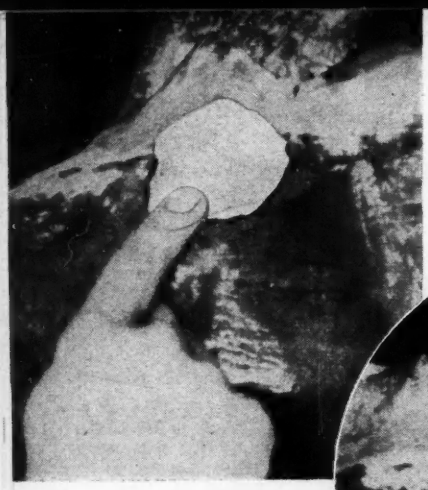


20 When the antlers are in the correct position, tighten the screws which hold the portion of skull and antlers. The antlers can be given added reinforcement by cutting a one-inch thick board the shape and size of the flat portion of the top of the head form and putting it inside, then holding it there while temporarily securing it with some small nails driven through from the top of the head form. This piece of board in the top of the head form will give something substantial for the screws to twist into. This reinforcement should be put in place before the baseboard is put into the neck of the form. This particular illustration indicates the reason care should be taken in sawing away the antlers and the portion of the skull, and why the cut should be made through the upper third of the eye sockets. Here the eye sockets of the skull coincide with those of the head form and insure proper positioning of the antlers

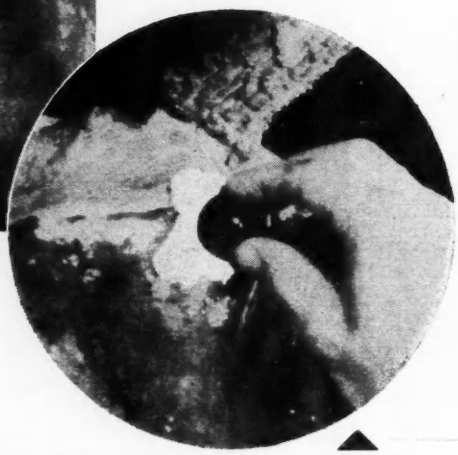
21 After the antlers have been secured, the next step is a thorough shellacing of the head form. This prevents absorption of moisture by the papier-mâché form. Be sure to let the shellac dry thoroughly before proceeding to the next phase

22 Plaster of Paris is used to build up the skull formation of the form to fit around the antlers. This material is kneaded and smoothed to take on the proper contour of the deer's head

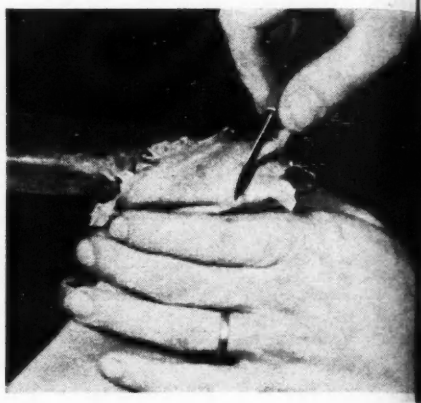




23 Modeling clay is now pressed into the eye sockets and will be the base for setting the glass eyes. An equal portion is placed in the opposite socket



24 The glass eyes are placed in their approximate positions. The iris should be horizontal and the glass firmly pushed into the clay. This bit of business is a lot easier than it looks because you have the eye sockets in the skull and head form to guide you

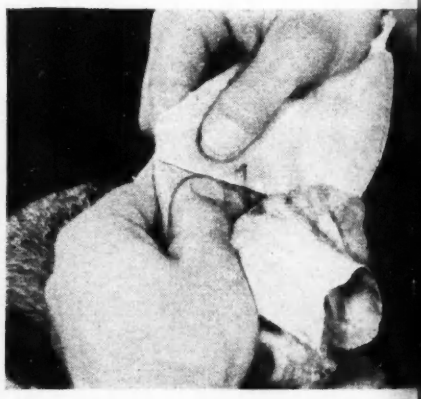


28 The tanned, or pickled scalp, which has been soaking in water overnight, is brought out for the final preparation. The lips, eyelids and nostrils are shaved with a sharp knife until they are quite thin. This is done so that they can be tucked into and around the natural openings

25 A divider is used in positioning the eyes. One point is placed in the center of the muzzle, then adjust to just touch the eye on one side of the form. It is an easy job then to put the other in its proper position in relation to the first

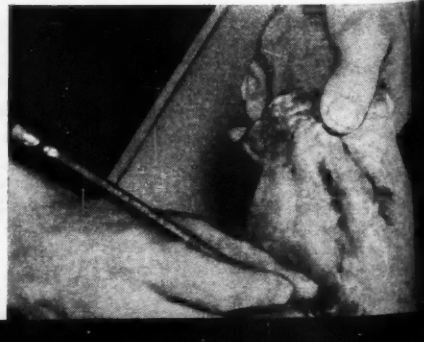
26 After the eyes are properly located the area around is built up with modeling clay. A good trophy is made to look as life-like as possible. The taxidermist strives for this result by replacing the muscles and tendons under the skin. He builds these up with water-softened modeling clay

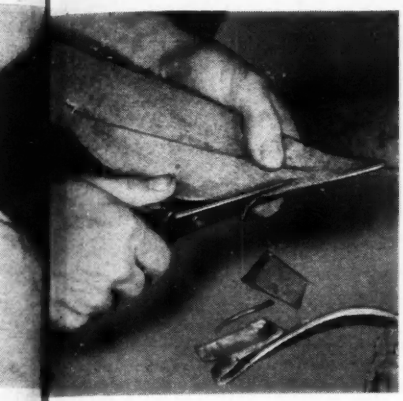
27 Another area that receives special attention is the muzzle and lips, as well as the nostrils. These areas are carefully modeled. This work is necessary to fill out the scalp and give the right contour to the finished mount. Note: Here is a stopping place in the work of preparing the head form for receiving the scalp. The form can be wrapped in a generous piece of wet cloth or blanket and left overnight, or until you finish the preparation of the scalp for slipping over the head form



29 Now, remove the cartilage from the ear. It has been cut loose, care being taken not to cut the skin of the ear, or tear it. This piece of cartilage should be removed whole and saved for the next procedure

30 The cartilage is placed over the ear forms, which are of stiff fiber material. The outline of the ear cartilage is traced; it will give the exact size of the ear, and determine the size and shape the ear form should be

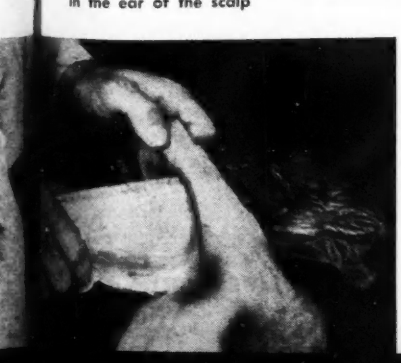




31 The surplus material is trimmed away, leaving a fiber ear the exact size of the cartilage which supported the ear of your deer's scalp

32 Note the generous use of shellac on absorbent material throughout the mounting. Each fiber ear is shellaced inside and out, to prevent the absorption of moisture

33 After the shellac has thoroughly dried on the fiber ears, each ear is coated with clay-paste and then inserted in the ear of the scalp



34 It is an easy matter to slip the ear skin into place around the fiber form. The trimming of the form to proper size, which was determined by the cartilage, insures a neat fit

35 Ordinary basting stitches are now taken through the ear skin and the fiber. This holds the ear in place and keeps the skin snug on the paste-covered ear form. Later, when the clay paste is dry these stitches are removed

36 After the scalp is prepared, eyes nostrils, and lips thinned down, and the ear forms are in place, the head form is coated with a thin layer of clay-paste. This will hold the scalp in place when it dries

37 The head form is placed on a table and the scalp slipped over it in this manner

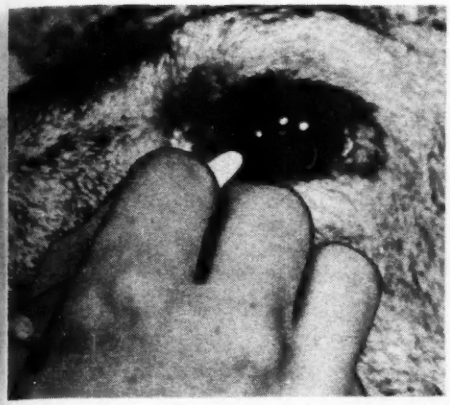
38 The first step is the forming of the mouth. The lips are placed in position, and the edges of the lips pressed through the thin opening or slit that was cut to form the mouth. It may be necessary to use some thumbtacks to hold the lips in place until they dry, if the mouth slot was cut too wide. The upper lip is tucked in place first

39 The lips are tucked into the slit cut into the mouth of the form. While working on the form, the skin is pressed against the head form to insure good contact between skin and paste covering the papier-mâché head form

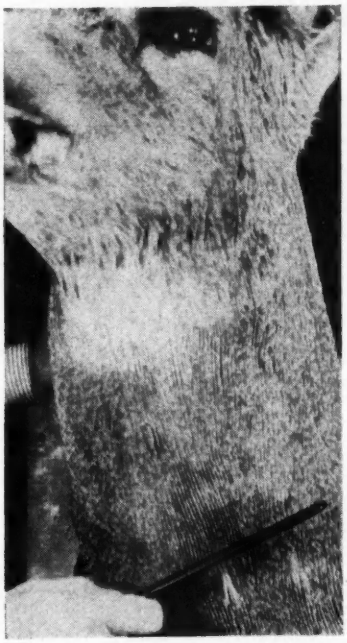
42 After the scalp is sewn and tacked to the head form, the next stages of preparing the trophy come along. The mouth is well finished already, and the nostril skin has been tucked into place. The eyes are now being tooled in. A small hardwood stick the size and shape of a carpenter's pencil is used; it is rounded on one end, the other being rounded also, but thin, with a nearly knife-sharp edge. This is used to press the lids into place around the eye. Remember, your modeling clay base and the clay-paste are still moist and pliable at this stage. Here is where you get a chance to display your skill

40 After the mouth has been worked in properly, the scalp is fitted around the neck and pulled down until the edges come together at the back. Sometimes the scalp will have to be stretched, but this is easily done if it has been soaked sufficiently

41 Sewing is begun at the base of one antler, and then procedes across to the other. The hidden, or baseball, stitch is used. Insert the needle from the underside of one edge, pulling the thread through, going down between the two edges and up through the underside of the other edge. Stitches should be about half an inch apart, and a quarter of an inch back from the edge



43 From time to time, as the mounting of the scalp progresses, and as the modeling clay takes on a firmer consistency, go over the eyes, nostrils, lips, smoothing out the rough spots, and getting a better expression. Take time to observe your work as you go along. Remember, you have plenty of time to correct your errors



46 After all the work around the eyes, ears, nostrils and mouth has been finished, the scalp is carefully combed and brushed. The hair is dampened sufficiently to stay in place. The hair should be arranged carefully, for at this stage of the mounting your trophy will or will not take on that finished, smooth, sleek appearance that is a deer's in the wild

47 If you have trouble because the hair on the underside of the neck is stubborn—which it often is—or is standing up because of a repaired cut, a piece of strong sheeting or canvas tacked snugly around it will hold the wet, combed hair in place until it dries. Now, hang up your trophy to dry thoroughly. The modeling clay and paste will harden, the hairs will dry in place, and in a week or ten days you can finish it up

44 Following the work around the eye, the ears are shaped up and positioned. Remember, there is an opening clear through the base of the ear. Modeling clay is rolled into a core and inserted as you need it

45 Proper positioning of the ears on your trophy will give it the alert, life-like appearance you want to achieve in the finished mount. Note here how the supporting muscle of the ear has been developed. Add modeling clay by insertion through the ear opening, as it is needed

48 Last step is painting the muzzle and eyes to give a lifelike appearance. The antlers can be thoroughly brushed with a stiff-bristled brush to give them a natural sheen. Finally, brush the whole head to remove comb marks

BIG-GAME ANI

THE MOOSE

BY JOHN M. MOYER, Staff Associate
Chicago Natural History Museum

THE LARGEST, and to many the most magnificent, game animal of the North American continent is the moose. This huge animal is represented by three races, generally recognized as the American or common moose (*Alces americana*), the Shiras or Wyoming moose (*Alces americana shirasi*), and the Alaska moose (*Alces gigas*), which is the largest member of the deer family to be found anywhere in the world. Their combined ranges extend throughout Canada (south of the tundra region) and along the northern United States from Maine to North Dakota, and south in the Rocky Mountains to Yellowstone Park.

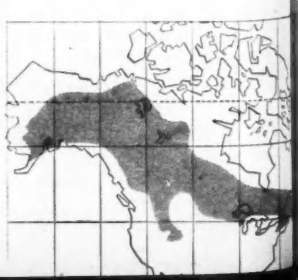
Compared with other members of the deer family, the moose is an ugly and ungainly animal, although considered by sportsmen a trophy well worth the time, effort and money spent when a record head is taken. Certainly it is far from being a beautiful animal; the males and females have a general brownish-black coloration, with some gray on the underneath parts and around the face.

The bull carries antlers with a spread oftentimes of six feet or more and greater in weight than any of the horned animals. Many of these animals have such immense antlers that one wonders how they carry the unwieldy headgear about and succeed in getting around through thick undergrowth and trees. Only the males carry the antlers, which are broad, heavy and palmated. The size and shape of the antlers tell nothing of the age of the animal after the third year. The young bull grows his first pair in the second summer, shedding them the following spring. After the third year, antlers are dropped in January or February, although in some animals they are shed earlier. As with most members of the deer family, the full development of the antlers comes about the seventh or eighth year, and despite their great size and weight they are shed and renewed year after year. The ears are broad and long, even for an animal of such size. From the throat hangs what is referred to as the 'bell'—a growth of skin entirely covered with hair. The bell is found in both sexes, but as the animal grows older it gradually disappears. In some animals the bell is round in shape, in others flat in appearance; the length is about 12 to 15 inches in the bull, smaller in the cows. The bell seems to be without use of any kind, no reasonable explanation having been offered to date regarding the animal's unusual adornment.

The peculiar skeletal structure of the moose stands him higher at the shoulders than at the rump. The tail is short and the hoofs are long, broad and pointed. Adult weight varies greatly. An old bull may average 900 to 1800 pounds, with the females weighing about three-fourths as much.

Moose feed mostly on aquatic plants when they can get to them. They also browse on shrubs, saplings and trees, and have been observed to feed on grasses. They feed generally in the early morning and late afternoon until dusk. During the remainder of the day, they are resting and chewing their cuds. While feeding on

(*Continued on page 30*)



ILS of North America

The first of an important series, in which a scientist and some famed hunters team up to describe habits and hunting techniques for each of our North American big-game animals

Moose hunting today

BY COLONEL TOWNSEND WHELEN

THE PRESENT HABITAT of moose is roughly the more moist forest regions of Canada from coast to coast, well back from settlements. In the United States they are now scarce in Maine and Minnesota, and increasing slightly in numbers in northwestern Montana and Wyoming and northeastern Idaho. Generally speaking the hunter has to go to Canada or Alaska for a fair chance at moose. The eastern hunter will naturally go to Quebec, as that is now the only province east of the Rockies where moose can be hunted legally. The westerner will find Alberta, British Columbia and Alaska the nearest hunting grounds. In these two regions, East and West, there is considerable difference in the methods that must be used for successful hunting of the largest hoofed animal of the world.

All previous suggestions on hunting in the East stressed the calling method, but recent revisions of the game laws make September, the only period when moose can be called successfully, a closed season, so that some notes on the hunting of moose under present conditions are called for.

During the summer and early fall, throughout eastern Canada, moose largely frequent the swampy shores of lakes and ponds, and the still water of streams, both because their favorite food at this time is lily pads and roots, water grasses and jointed grasses, and to avoid the mosquito and black fly pests. They continue to frequent water during September, which is the rutting season when the bull can be called up or located by imitating the call of a lovesick cow, or the grunts and bush slashing of an amorous bull. But as I have said September is now a closed season.

As soon as the rut is over, early in October, when the season opens in Quebec, the moose leave the water and go back into the more-or-less dense woods and thickets where they browse on willows, birch, poplar, moosewood (striped maple), and mountain ash. Thus the eastern hunter of today must still-hunt moose much as he would deer. There is no chance of driving moose, or of watching a runway, as is often done in eastern deer forests. You have got to get well back into the woods where the moose are feeding. That is where you find the freshly cropped ends of the smaller branches of willow, poplar and birch, with here and there a mud hole wallow. There you will have to travel slowly and silently up-wind, constantly on the alert for sound or sight. Probably you may have to still-hunt thus for many miles and many days before you get your chance at a bull. Such hunting is strenuous. Gone are the days when you could paddle along a lake or stream shore and find moose feeding, or take up a good lookout along such a shore and call a bull up to you.

Moose hunting today is a sport for young and vigorous men, or for the few oldsters who still have the energy of youth, and particularly for the man with lots of patience who will stick to the all-day, no-trail travel day after *(Continued on page 31)*

A young Kenai bull poses long enough to offer an excellent choice of aim. Most Alaskan hunters prefer head, neck or lung shots to minimize meat spoilage. Photograph by J. M. Greany

THE MOOSE

Continued from page 28

aquatic plants, it has been recorded that a moose frequently remains under water for as much as a minute and a half. When in deep water, the animal can sink or rise at will, completely submerging its entire body and staying under while the water smooths out, until there is not a ripple to stir the surface as the bottom of the pond or lake is searched for food. They are strong swimmers and many accounts mention moose being overtaken as they were swimming across a lake, miles from shore, in their search for new feeding grounds. During the winter, when deep snows make traveling difficult, small herds of five to fifteen individuals, sometimes more, gather together in the sheltered part of a wood or swamp and feed on willow, birch, poplar and other trees, the tender bark and branches of the willow being an important food in cold weather. They stay in the same locality until the food supply is exhausted, then move on to another favorable location. In the deep snow, and while confined to a small area by the weather, many intersecting pathways are made as the animals walk about, tramping down the snow and making new and wider paths as they browse. An area of this type is often referred to as a 'moose yard'.

The rutting season — always the season of great activity in all animals—begins in early September and continues until the middle of October. The young are born in late May, the cow having one calf her first season and after that one or two, rarely three. The calf remains with the mother throughout the summer and some reports indicate that the calf stays with the mother all through the following rut. However, the yearling is driven off before the next young are born. Moose appear to have no instinctive desire to migrate great distances, although they are built for traveling. During the summer months, the bull may travel over less than a hundred acres of swamp or lake shore, but at the rutting season he sets forth to find a mate. The cow moose does the calling and it is then that many battles are fought between the bulls in their aggressiveness, always with the smaller or weaker of the two saving himself in flight.

The moose has a keen sense of smell, sharp ears and relatively poor eyesight. Quite naturally moose become more alert and irritable during the rut and hunters' tales describe the moose viciously charging a man. There is always the doubt, however, if the charge is a direct charge. If the wounded or frightened animal 'charges', poor eyesight may very well have misled it in the hunter's direction. This explanation is the beginning of many arguments, obviously.

Second largest set of moose antlers ever recorded, as now mounted on an animal in the Chicago Natural History Museum's moose group. This bull stood six feet eleven at withers

Despite his grotesque appearance, a bull moose makes an outstanding trophy for any game room. This is a good Eastern head

All record trophy heads have been obtained from the Alaska moose, the largest and most spectacular of the North American group. They are found in greatest abundance on the Kenai Peninsula of Alaska, and the first, second and third record heads were taken there. For many years the record was held by the antlers in the Chicago Natural History (Field) Museum collection. This set of antlers was taken from an animal found dead in the Kenai River, about 1900. The wounded animal died, it is supposed, after it made its way to the river's edge to drink and toppled over in the water. The original weight of these antlers was 65 pounds, not as heavy as many antlers taken today, but their spread was 78½ inches—a world's record. During the years these antlers have shrunk until today the spread is 76½ inches. Consequently, first place honors were taken over in 1938 when another record head was secured, which is now in the collection of the American Museum of Natural History, New York. This set of antlers measures at its greatest spread 77⅝ inches, with the number of points listed as fifteen on the right palm and eighteen on the left palm. ◆◆◆

Until 1938, this was the world's record set of moose antlers. Spread: 78½ inches; weight: 65 pounds; points: 16 on each palm

Moose hunting today

Continued from page 29

day. You must be silently shod, must hunt slowly with your eyes on the forest and not on the ground, never directly down wind, for moose have keen scent and hearing although their eyesight is not good. In one way moose are much easier to hunt than deer for it is easier to see them in the forest. Watch for large black or dark brown spots. Carry binoculars on your chest and when you see such a spot, glass it to determine if it is a bull with antlers, a cow, or—as most often happens—just a black or shadowed stump.

If you are down wind from a moose, and not making any noise, the chances are you will have plenty of time to examine it, for there is much less chance of its discovering you and jumping or rushing off than with deer. There may be one, two, or even half a dozen black spots that your binoculars show are animated. Examine all the surroundings for others. Search for large, wide palmated antlers above the black spots. Look for the largest antlers. It may be necessary to sidestep a bit to see around bushes and trees that intervene, and to find an opening where you can place your shot in the chest or front shoulder.

If the first shot does not down the bull, keep on shooting as long as you can get a clear target. Moose are not often downed by the first bullet. Usually it takes two or more shots, but a bull usually does not clear out as quickly as would a deer. Very often it is easy to get in two or three shots before it gets out of sight, often before it starts to move off at all. Indeed when you shoot at and hit a bull, unless he has seen or smelled you first, he does not seem to be greatly alarmed. Probably he thinks he has been prodded by another bull, and he will often merely turn around and start to walk off. Not so, however, if he is aware of you, for then he goes off like an express train, and bushes and even fair-size trees crash out of his path.

Now let's switch to mountainous western Canada where the hunting is in a sense easier because the forests are more open, and from the tops of hills and mountains you may be able to glass a lot of country, locate a bull, and then proceed to stalk him. Here moose feed and travel, mostly in the early mornings and late in the afternoons, in the open mountain valleys and burnt-over hillsides where much dwarf willow grows, and where glades of poplars stretch up the hillsides. Also they are found in the broad and level bottoms where there are small lakes and still-waters with swampy shores. During the middle of the day, however, they usually go back into the dense clumps of spruce that surround such country, and mid-day hunting is seldom profitable.

In this more or less open country a bull can often be located a long way off and his antlers judged through a good pair of binoculars. Particularly before the middle of October the antlers show up a dull ivory white, glisten in the sun, and can be seen a long way. After a bull has been located it is comparatively easy to stalk within fairly close range, up wind, no noise, keeping out of sight as much as possible. If you have to cross an open space do so very slowly, or only when the bull is feeding or has his head turned away. Before you start your stalk always locate your moose with reference to some prominent object close by—it is easy to lose track of the spot where he is as you dip down into hollows out of sight of him.

After you have killed your moose there comes the aftermath, the butchering, and the packing out of the head, scalp, and such of the meat as you elect to save. This is downright hard work, particularly if you are on your lonesome. Of course, in the West you may have a pack horse, but in the East a lot of long, heavy packing may be in order.

What about the best rifle, or rather, cartridge for moose?

Throughout Canada the native guides, trappers and woodsmen will tell you that the .30-30 is a good moose cartridge. They are most familiar with it because often it is the only one they can get or afford. Also, almost invariably the native hunter gets close to his moose and pours in three or four good shots before it gets out of sight. On the other hand Charlie Barker, the most experienced moose hunter I have known, gave me quite a dissertation on moose rifles one evening before a New Brunswick campfire. He thought the poorest cartridge was the .38-55, and the .30-30 class not much better. He considered the .45-70, the .30-40 with 220-grain bullet, the .33 Winchester, and the .30-'06 all excellent, and that the .405 was the only cartridge that would frequently

shoot clear through a moose. This was before the day of the .270 cartridge. Another very great friend of mine, Harold Looken, an old Alaskan sourdough whose experience dated back to the gold rush of '98, had more experience than any western hunter I know of. He shot over a thousand head of Alaskan game in his day. He was in the fortunate position of being able to hunt all the time, and also to employ only the best rifles. While he had a fine opinion of the .30-'06 with the old Remington 220-grain delayed mushroom bullet, he considered the .270 Winchester the best rifle and cartridge of all for all mountain game, including moose. Of course, he was a mountain hunter and placed great stress on sure hits and kills at long range. No matter how excellent the killing power of the .405 and .375 Magnum, they are by no imagination the best mountain rifles.

I shot my first moose in New Brunswick late in October many years ago. I had still-hunted for eleven days from dawn to dusk. About noon on the twelfth day I heard a red squirrel scolding off to my left rear and, sneaking over, suddenly I was aware of the antlers, head and chest of a big bull in clear view above some bushes about seventy-five yards off. I placed the first shot in his chest, placed the second in his left shoulder as he turned, and the third in his seat—and down he went. It reminded me exactly of rapid fire, standing, when shooting on the Army Infantry Team. As a matter of fact I think that the first shot was all that was needed, but I was taking no chances. My rifle was the .30-'06, with the old 172-grain Remington umbrella-point bullet.

Another moose, also in New Brunswick, was killed while hunting with Sandy Parish, in six inches of snow. We tracked up a bunch, and came on five or six black spots. We spent perhaps ten minutes within fifty yards of them, side-stepping and trying through thick brush to see if any was a good bull. Finally I made out a pair of fine antlers above one of the black spots. By this time some of the moose appeared to be getting a little nervous and started to move. Probably they had glimpsed us moving around. So I put a bullet into the middle of the black spot below those antlers. At a walk all the moose moved off. There was blood in the snow where the bull I fired at had stood. We sat down, smoked several pipes, and then followed up the track, which was very plain, with blood in the tracks and on the bushes on the left side of the trail. After about a hundred yards, much to my consternation, the tracks passed between two trees so close together that an antlered bull could never have gotten through. "Have I shot a cow?" I wondered. In our dilemma we went back and studied the tracks, and presently we found the story. At one place the wounded bull had turned to the left around a bush and had left the bunch. A cow following had trod

This youngster was photographed for the Fish & Wildlife Service by J. M. Greany near Portage, Alaska

in its bloody footprint and had carried the blood along on its hoof. We then followed the bull's trail and in about half a mile saw him standing in full sight. I placed a bullet in his left shoulder, and at once saw all four feet of that bull ten feet in the air. When we got to him he was stone dead on his back, both antlers imbedded in the ground. The first shot with a .30-'06, 180-grain Winchester soft-point bullet had struck in the left hind quarter.

Another was shot in the Canadian Rockies, as we traveled down a mountain valley with the pack train. Stanley Clark was in front and I in the rear, driving the pack animals along. Stan stopped and threw up his hand and beckoned. I jumped off my horse, yanked my rifle out of the scabbard, and ran forward. About 250 yards ahead was a big bull standing in the middle of the little river. Stan said, "You've got to kill him quick. If he ever gets in those jack-pines on the far shore we will never see him again." I sat down and fired, and the bull went down in the drink. "Don't kill him so quick," yelled Stan. "We'll have a hell of a time getting him out of there." The rifle was a .30-'06, with the 180-grain Western open-point boattail bullet, factory load.

My last moose was killed, high up in the Rockies, in burnt-over country grown up with much brush. It was easy country to see game in. I had hunted all day, seeing only a cow, until almost dusk, when I seemed to sense something down the mountainside. After standing for several minutes, I made out a good bull winding his way up hill—a perfectly gorgeous sight in that mountain wilderness. On he came, twisting through the dead jack-pines. When he got as close as he was coming, I fired offhand as he passed through a clear opening. He reared up on his hind legs, fell and lay still. The distance, paced, was 175 yards. I had placed the bullet—.270 Winchester, 130-grain WT&C hollow point loaded to 3100 feet a second—just right in his right shoulder.

These opinions of mine are based on six moose kills, and on what I have seen and learned on many fall hunts in country containing moose, and from the experiences of a lot of much more experienced hunters. ♦ ♦ ♦

Also by Greany for the Fish & Wildlife Service, this photograph, taken with a telephoto lens, caught these two moose at Harvey Lake, Alaska

Remodel your Springfield

BY CONRAD E. GRAVES, JR.

WHY BUY an expensive new stock for your Springfield service rifle when you can rebuild the issue stock, complete with recoil pad, for less than ten dollars?

"But I'm no craftsman," you protest. Brother, you don't have to be! Of course you can't build a fine sporter without manual or mental effort, but by thinking each step out before you start and by working slowly and carefully you can turn out work that any pro would be proud of.

Here's a list of the materials you will need:

1) "White Line" no-slip butt plate, size three small; 2) Forearm screw-eye for sling swivel, 1¼ inches; 3) Leather sling, 1¼ inches wide; used if in good condition; 4) Walnut Plastic Wood; 5) Quick-drying walnut stain; 6) Quick-drying clear lacquer; 7) Small paint brush; 8) Waxed paper or aluminum foil; 9) Rubber cement; 10) Soap flakes; 11) Piece of light cardboard; 12) Small wood block.

Secure all the materials needed before you start to work rather than buying one thing at a time. If your local sporting goods or hardware store doesn't have some of the materials, look carefully through the ads in the RIFLEMAN.

Here are the tools you will use:

1) Two or three assorted screwdrivers; 2) Wood rasp or file; 3) File card to keep rasp clean; 4) Drift punch, 3/32-inch; 5) Hand drill and ⅛-inch bit; 6) Fine-tooth hacksaw; 7) Hammer; 8) Ruler; 9) Pencil; 10) Nailbrush; 11) Two or three packages of assorted sandpaper.

When you have located all the tools, disassemble your Springfield as follows:

Remove screw at muzzle end of the front sight. Tap dovetail block to the right with a piece of hardwood and light hammer blows.

Remove screw from front band and tap it off, still using your piece of hardwood as a punch.

Loosen screw on middle sling swivel, press in spring catch and slide swivel band forward and off the muzzle. Lift handguard (top part of stock) forward and off.

Lay your rifle on its side, projecting over the edge of a table, or on your lap. Opposite the spring catch you will find a small hole through the side of the stock. Insert your 3/32-inch drift punch and drive out the tail of the spring catch. The spring catch can now be removed easily.

Place cut-off in middle position, raise the bolt handle and pull the bolt all the way out of the action.

Turn your rifle bottom up and press down with your drift punch on the little flat piece that sticks up inside the hole at the rear of the floor plate. Slide the floor plate to the rear with your thumb while you keep the pressure on with the punch. Usually the plate just snaps out, but you may have to hit it smartly in a rearward direction with the heel of your hand. Lift out the floor plate, spring and follower.

CONVERTING YOUR SPRINGFIELD INTO A SERVICEABLE BUCK-HUNTER'S RIFLE IS A SIMPLE HOME-WORKSHOP PROJECT

Hold the rifle down solidly on bench, table, or floor, and remove guard screws. Lift the stock up and off the barrel and action.

Turn the stock over. A few light taps on the piece that sticks up inside the stock at the rear of the magazine opening will loosen the magazine and trigger guard assembly so that it will drop out of the stock.

Remove screws and lift out the rear sling swivel.

Remove screws and lift off buttplate.

Now you are ready to begin remodeling the stock.

The first step is to get all the oil out of the stock. Procure the soap flakes of your choice (not one of the new detergents) and an old nail brush. Wet the brush with hot water, sprinkle some soap flakes on it, and work up a good lather on the stock. Scrub it good and hard. Don't dip or soak the stock in water, just scrub on it hard with a stiff brush and good thick lather. Then rinse the stock under hot running water, just enough to get the soap off the surface, and dry quickly with paper towels. Light the biggest burner of your gas or electric stove, or open the lid of your coal range. Pass the stock back and forth very quickly within a couple of inches of the flame, rolling it all the time and never letting it stand still for a moment. The idea is to get the whole stock so hot that you will have to wear gloves to hold it, but not to let it stay in one place long enough to char the wood. Be particularly careful of the thin edges of the stock. Find out just how hot you can get it on the first six inches of the front or on the hand guard, as you're going to throw those away anyhow.

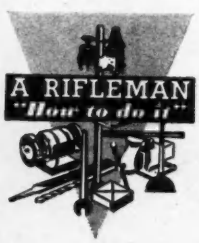
You're going to have a lot of oil spewing out and you can get the oil hot enough to smoke without burning the wood of the stock. Try to keep most of this oil wiped off with your paper towels. Some of it may be linseed, but a lot of it is going to be lubricants and rust-preventing mineral compounds. The linseed oil isn't going to hurt your finish but the other stuff certainly will. A finish that is mixed with lubricants will never dry out.

You may have to repeat this soaping-rinsing-drying process four to six times until the stock oozes little if any oil when it is heated in the drying process. It is best to do this part of the job straight through at one time. It will take a lot longer to get the oil out if you let it cool overnight between washings.

After the final drying, let the stock stand for about twenty-four hours in a dry place to work any extra moisture out of the surface.

The next step is to shorten the stock, as follows:

Cut a strip of light cardboard one and three-quarter inches wide and about three inches long. The length doesn't matter, nor does the width have to be exact, but you must have the strip an even width the whole way. Hold or tape this strip around the stock against the shoulder that supported the middle swivel band. Make a pencil line on the stock around the front edge of this strip and then remove the cardboard strip. Press hard and make the pencil line plain.



If you have a vise, pad the jaws and grip the stock lightly. Place the stock on its side with the top toward you. Grip firmly but lightly, or you'll crush the stock. If you have no vise, pad the top of your bench or table and hold the stock down, or have a helper do the holding for you. Saw off the stock on the line laid out in pencil. Use your fine-tooth hacksaw (24 teeth to the inch or finer) and saw very lightly, or you will splinter out the edges of the stock.

Now place the barrel back into the stock. You will note with horror a gap between the barrel and the end of the sawed-off stock that a cat with a large litter of kittens could crawl through without mussing her fur. Don't let that bother you. Remove the barrel and cover it from the rear sight base to a couple of inches beyond where the end of your stock is going to be with a single layer of waxed paper or aluminum foil. Smooth it out carefully and hold it in place with Scotch tape. Put all seams on top. Now open your Plastic Wood and work fast because the stuff begins to set very quickly to the point where it will not adhere to the wood of the stock. Mould into the barrel channel with your fingers enough of the Plastic Wood to more than fill the gap around the barrel. If you are lazy, fill in back to the first lightening cut in the bottom of the stock. Or fill in back to the sight base. Don't try to fill in the lightening cuts, but don't be fussy if some of the plastic oozes down into the cuts. You can get it out later when it's dry. Rub it on all the way up to the edge of the stock. Put in your barrel and action and the trigger guard, and pull the guard screws up tight. Fill in cut left by removal of spring catch. Let it stand for at least forty-eight hours, as the Plastic Wood dries out very slowly under the waxed paper or foil.

Cut away the paper or foil from around the top of the barrel, loosen the guard screws, and carefully lift the barrel and action out of the stock. You will now be able to peel most of the paper out of the barrel channel. If the Plastic Wood is not rock hard under the paper, let it harden for another twenty-four hours. Once you have removed most of the paper, the Plastic Wood will dry out very fast. Don't worry if some pieces of paper refuse to come free of the Plastic Wood. They won't hurt anything if you leave them there.

Sandpaper or rasp away with the smooth end of your rasp any of the Plastic Wood that has oozed out over the top edges of the stock, but take it slowly because you don't want to cut into the wood of the stock.

Take the rest of the metal parts out of the stock and take a good, long look at the picture of the finished sporter, with particular reference to the fore-end tip. Now go to work with your rasp and do your best to copy it. I just rounded off the bottom and edges a little but you can make it rounder if you wish.

Now take your "White-Line" recoil pad and hold it against the butt of the stock. You will notice that it is at least two or three inches too long for the stock, and the stock is too wide for the pad. Also there is a deep indentation where the old butt plate fitted. All this is easily remedied so don't worry. With your rasp, cut down the top of the stock from the small back to the butt. The idea is to get the level of the top down and remove the indentation. When this is done, again hold your "White Line" pad on the butt. This time fit the bottom of your pad with the bottom of your stock. Be sure the screw holes are placed on the solid part of the butt and not in the holes. With your pencil make a line across the pad where the rasped-down top of the stock touches it. Remove the pad and saw it across this line with your hacksaw. Take your rasp and round the corners of the pad to match the stock. Smooth the edges of your pad out with coarse sandpaper. On the sides of the stock you can use coarse sandpaper to bring them down to the width of the pad. You can deepen the small of the stock with coarse sandpaper if you wish. When you attach this recoil pad (later) the stock will be approximately the same distance from small to butt as when issued. If you wish to lengthen it, rectangles of plastic may be purchased, rasped and sanded to size, and placed between the butt and the recoil pad.

Next, decide where you want your front sling swivel. About two and one-half inches from the tip is about right. Put the stock back in your padded vise or hold it bottom up on your bench or table. With a ⅛-inch bit drill a hole completely through. Ream it a little on both sides so your sling swivel

fits in snugly but don't put the swivel in yet.

Start the sandpaper job with a very coarse grade and sand always with the grain of the stock. Hold your sandpaper around a wood block when you are working around the edges of the stock, as otherwise the sandpaper will round off and cut down the thin edges of the stock before you know it. Use the coarse paper until you have removed all rasp marks from the stock. Continue the sanding with finer and finer grades of paper. Always remove the marks left by the previous grade before proceeding to a finer grade.

When your stock is as smooth as you can get it with the finest paper, wet it all over on the outside to raise the grain, and dry it quickly over the stove burner—much as you did after you washed the stock, but this time you don't want to do it as long or as hard. Take a new piece of your finest sandpaper and sand very lightly with quick strokes to cut off the whiskers. Repeat this wetting-drying-sanding process until you get no more crops of whiskers on the stock.

Let the stock stand overnight to be sure it is perfectly dry and give it a thin coat of walnut stain. Apply this lightly with your paint brush and wipe the surplus off immediately with a soft cloth. The shade you get depends upon how thickly you apply the stain. Let your stock dry for twenty-four hours even if the stain is quick drying. If any spots are lighter than the rest of the stock, retouch them by applying the stain lightly with a clean cloth. When the stock is the shade you desire and the finish is even, let it dry for another twenty-four hours.

When the stain is perfectly dry, give the stock a thin coat of the best grade of quick-drying clear lacquer. It won't hurt if you thin the lacquer with the proper type of thinner for the first coat or two. Coat the inside of the stock with the first couple of coats. Let it dry a full twenty-four hours, no matter what the directions say. Rub down with fine steel wool until you have removed all the gloss and any bumps you may have caused by putting the lacquer on too thick. Then repeat the lacquering and rubbing-down routine, anywhere from three to six times, until you get a smooth, even surface after rubbing down, with all the pores of the wood well filled.

Place your front sling swivel in place in the hole you drilled and tighten down as tight as possible. Then pack Plastic Wood in the lightening cut all around the swivel to keep the sling pressure from pulling it lose.

Hold your recoil pad in place against the butt and insert the screws enough to mark the butt. With your one-eighth inch drill, drill into the butt about half the length of the screws. Coat the back of the pad with rubber cement and screw it down as tightly as you can. Be sure you have a screwdriver small enough to fit into the holes in the pad without tearing it. If any cement spills on your stock, wipe it off at once before it dries.

Here is the author's Springfield sporter after a few hours of home-workshop effort. Few tools are required, and even the kitchen table can be used in a pinch!

Now, give your stock a well rubbed-in coat of a good grade of paste furniture wax, polish with a soft, lint-free cloth, and you are through.

Reassemble and I think you'll admit that you have a sporter you won't be ashamed of in any hunting field. Your finished sporter will weigh about eight pounds, be nicely balanced, and have a rich-looking walnut stock.

With such a beautiful stock, the metal parts may now look dull to you. This is because the Army uses dull blue that doesn't reflect the light. I don't think that any deer is going to see your barrel reflecting the light and start sniping at you so you had better give your beautiful stock a beautiful barrel and action to go with it. Rebluing a rifle is easier than you might think. Get yourself a good bluing kit via the advertising pages of the RIFLEMAN and follow the directions exactly. All I can add to them is to go slow and think out each step before starting work. When you finish rebluing, you will have a truly beautiful and dependable sporter. It will be all the more beautiful to you because you created it. ♦ ♦ ♦

NEXT MONTH, *look for the second of the* RIFLEMAN's *North American big-game series, this one on the mule deer . . . with John Moyer and Bud Jackson teaming to bring you habits and hunting techniques. Also . . . a picture feature on selecting a used handgun . . . loads for the ever-popular .45-70 . . . another of Adolph Niedner's fine series of reminiscences, as told to John Barsotti . . . and historian Harold Peterson with some facts about Colonial firearms.*

THE BIG BIG SEARCH

BY BILL DEPPERMAN

THE UNBELIEVABLE has happened. A Hollywood movie has ferreted out of obscurity some of America's rarest rifles. The movie is "Winchester 73," and the rifles are the "One of One Thousand" variety of the Winchester Model of 1873 lever-action repeater (RIFLEMAN, May, page 14). Since publication of that article, twenty-three authentic "One of One Thousand" Model 1873 rifles have been located. In addition, six even rarer "One of One Thousand" versions of the Model of 1876 Winchester have been found. To top it off, the few owners of the extremely scarce 1873's and 76's are not the only ones to share in the windfall. The value of every garden-variety Model of 1873 has practically doubled since the nationwide search was started. So don't scoff at Western movies. One of them has paid off big for gun cranks.

Here's the sequel to the RIFLEMAN article that started the search for "One of One Thousands."

Within two weeks of its publication thirteen rifles were located among members of the National Rifle Association. Then, to step up interest in the search, Universal Pictures offered to give a free Winchester Model 1894, the modern descendent of the '73, to the first twenty persons reporting their ownership of a genuine "One of One Thousand" Model of 1873. More than 150,000 handbills were distributed to newspapers, police chiefs, rifle clubs, gun and ammunition dealers, and a host of others.

Most of the owners were completely unaware of the rarity of their "One of One Thousand" rifles. James R. Smith paid $4.50 for his, which he bought in a secondhand store. Some had an idea they were valuable, but few knew what the words "One of One Thousand" signified. Lloyd Bender of Galion, Ohio, was one of the few owners who was well aware of what he had, but admits to some surprise when he was offered $1,000 for it since the search brought "One of One Thousands" into prominence.

The real "One of One Thousands" were the best of every 1,000 Model of 1873 Winchesters produced, and were set aside unnumbered until the company received an order for one.

Mystery shrouds the history of most of these rare rifles, but the most provocative mystery of all surrounds a "One of One Thousand" Model 1873 once owned by George F. Lewis. Mr. Lewis died in 1941 at the age of 83, at Tacoma, Washington.

Born in Kansas in 1858, Lewis came to the state of Washington in 1880, settling in the northern part of Ferry County where he engaged in the cattle business. Just when he acquired his "One of One Thousand" is not known.

Lewis set great store by his rifle and shot everything from rattlers to Alaskan brown bear with it. He used it in snow, dust and sand storms, in blizzards and in temperatures ranging from 120 degrees above to 60 degrees below zero. One winter his "One of One Thousand" bought him a new Chevrolet. With a $20 bounty on cougars, Lewis killed 35 that winter in Eastern Washington.

The lure of prospecting took him to Alaska where he discovered a copper mine north of Juneau. The mine proved a good one, but unable to get his ore out and with age and ill health creeping upon him, Mr. Lewis decided to give up the mine. Before doing this, he packed his "One of One Thousand" in heavy grease, stored it in the mine, and then sealed off the mine opening with a charge of dynamite.

Today the mine and the rifle are hidden behind a wall of dirt some 60 miles north of Juneau. No one knows just where, but some day a lucky man may find both of these rich prizes.

The story of another "One of One Thousand," serial number 18,521, starts after it left the factory on June 30, 1876. It made its first appearance in Utah in the hands of immigrants. It was stolen by a horse thief (name unknown) and came into Montana in the possession of the bandit Teton Jackson, who killed two sheriffs with it. Frank Canton, another sheriff, caught Jackson in Buffalo, Wyoming. Jackson was killed and the rifle was sold by Sheriff Red Augers to a sheep man named Kingsbury, for his herder. Then it started its peaceful career. The herder thought the "One of One Thousand" too heavy for a saddle gun. Mr. Kingsbury then told Dr. W. A. Allen (Montana Allen) of Billings, Montana, that he could have the rifle if he would supply the herder with a lighter rifle. Dr. Allen kept the "One of One Thousand" for forty years and gave it to Frederick G. Renner of Washington, D. C.

Mr. Renner, an official of the U. S. Soil Conservation Service, sold the rifle to its present owner, D. J. Harrill, of Falls Church, Virginia. The barrel is marked "One of One Thousand."

If you own a genuine "One of One Thousand" your rifle has unmistakable evidence of its authenticity. The top of the barrel ahead of the receiver is engraved in one of two ways: "One of One Thousand" or "1 of 1,000." To avoid present-day forgery, Winchester is holding back several telltale evidences by which genuine rifles may be detected. If there's any question as to a rifle's authenticity, Winchester can supply the answer. Don't ask what they're worth, though. Neither Winchester nor the author has an answer for that question.

Each of the twenty-three rifles listed in this article has been verified as genuine by James C. Hartley of the Winchester Repeating Arms Company. Although the search as such has been concluded, the author is still interested in the whereabouts of any other "One of One Thousand rifles." Here are the details of those already reported, and their owner's name. All are engraved "One of One Thousand" unless otherwise noted.

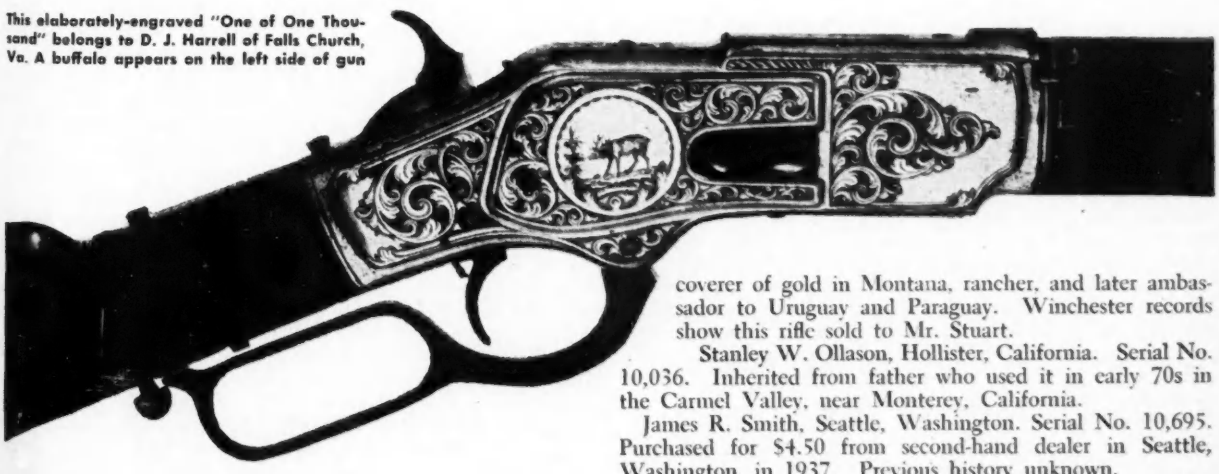
Dr. James T. Fowler, Osawatomie, Kansas. Serial No. 1,213. Given to him in 1945. Previous history unknown.

John D. Morley, Lodi, California. Serial No. 3,548. Given to him by his grandfather, W. N. Garland of Murphys, Calavaras County, California, who used the rifle in the local Home Guard and while an operator of a freight and stage service through the Mother Lode area during early mining days.

Harry L. Kemp, Judith Gap, Montana. Serial No. 23,488. Dug up in 1925 in Helena, Montana, by excavating crew which was placing a ditch through old placer diggings.

F. P. L. Mills, Old Deerfield, Massachusetts. Serial No. 6,594. Purchased for $10 in 1935. Almost new condition. Previous history unknown. Engraved "1 of 1,000."

Granville Stuart Abbott, Lewistown, Montana. Serial No. 7,282. Inherited from grandfather Granville Stuart, discoverer of gold in Montana, rancher, and later ambassador to Uruguay and Paraguay. Winchester records show this rifle sold to Mr. Stuart.



This elaborately-engraved "One of One Thousand" belongs to D. J. Harrell of Falls Church, Va. A buffalo appears on the left side of gun

Stanley W. Ollason, Hollister, California. Serial No. 10,036. Inherited from father who used it in early 70s in the Carmel Valley, near Monterey, California.

James R. Smith, Seattle, Washington. Serial No. 10,695. Purchased for $4.50 from second-hand dealer in Seattle, Washington, in 1937. Previous history unknown.

Glenn E. Ellingson, San Bruno, California. Serial No.

10,950. Received in a trade. Previous history unknown. Engraved "1 of 1,000."

Charles A. Alden, St. Petersburg, Florida. Serial No. 18,070. Purchased in 1880 by his father, E. Ames Alden of Boston.

Oliver R. Jones, North Hollywood, California. Serial No. 18,386. Acquired from his uncle, Thomas Rodney Jones, of San Francisco. No history known.

William W. Kessler, Whitmore, California. Serial No. 25,829. Purchased recently in a second-hand store in Redding, California, where it lay among numerous junk guns. Early history unknown.

Louis A. Ostendorp, Berwyn, Illinois. Serial No. 27,141. Purchased from a dealer, no previous history known.

Commander T. R. Jordan, Seattle, Washington. Serial No. 30,783. Bought from a friend three years ago. No history known.

Thomas H. Oster, Cloverdale, California. Serial No. 31,268. Given him by a former stage coach driver who carried mail between Cloverdale and Lake County, California.

Scott Merry, Tacoma, Washington. Serial No. 31,270. Received as gift. No previous history known.

D. W. Peckham, Middlefield, Connecticut. Serial No. 35,290. Received as a gift in 1886 from William Lyman, inventor of the gun sight.

Richard Larsen, Visalia, California. Serial No. 37,944. Except that it was brought across the Plains in a covered wagon, its early history is unknown.

Sam G. Bachelder, Santa Cruz, California. Serial No. 44,262. Bought twenty years ago for $5. Early history unknown.

Phil M. Brown, Watseka, Illinois. Serial No. 19,675. Acquired about twenty years ago from man who "didn't want it around." No history known.

Lloyd Bender, Galio, Ohio. Serial No. 23,385.

Clyde Schurman, Woodland, Washington. Serial No. 7,778. Purchased July 1947 from C. R. Boone, Burbank, Calif., who in turn bought it Dec. 1943 from Russell Wilkes of Paris, Mo. No history known.

John S. Friend, Cassaway, W. Va. Serial No. 11,217. Purchased in 1949 in Akron, Ohio. No history known.

As a precaution, there may some day come into the market three rifles which *look* like "One of One Thousands" but are not. These engraved Model 1873's were made as movie props. They are highly accurate and today are in excellent mechanical condition. They are different from conventional rifles of this type because they have gold inlay running along the right and left side of the barrel. These also have a brass plate imbedded in the right side of the stock. These three rifles are not genuine "One of One Thousand." They are numbered 551,816, 703,161 and 706,716.

Any gun crank would be happy with news of the discovery of just one new rarity, but the present search disclosed a second rarity which is even scarcer than the "One of One Thousand" of the Model 1873. The second rarity is the "One of One Thousand" of the Model 1876.

As everyone familiar with the Model 1873 now knows, only about 130 of the "One of One Thousand" of this model were produced. But here is news: The "One of One Thousand" of the Model 1876 was limited to a production of about 47 out of a total production of 63,871 Model 1876's. The last Model 1876 was number 63,871 and was shipped from New Haven on February 8, 1898. And, as a by-product of the '73 search, six "One of One Thousand" Model 1876 rifles have been located.

Also, because of the high value placed on "One of One Thousand" rifles, several Winchester customers of long ago specified that the same distinctive type of engraving, but of course without the magic words "One of One Thousand," be placed on ordinary 1876's. Four rifles so engraved are recorded in the company's old records—numbers 13,596, 13,600, 15,127 and 37,855.

And then, on top of even this, comes the disclosure that seven rifles of the Model 1876 were produced in a "One of One Hundred" classification. None of these, however, has yet been reported.

As far as it is now known, there were no "One of One Thousand" grade rifles made in either Model 1866 or in the single shot Model 1885. ♦ ♦ ♦

ALL-'ROUND RIFLE

Continued from page 13

bolt-action style of rifles.

In picking the big-game rifle which will be a mate to your .22, remember this: Choose and shoot the most powerful weapon that your body and nerves can stand up under without causing you to flinch or fear the recoil. We are all built differently, physically speaking, and we must think more about this fact when selecting that all-round rifle. While it is important to pick your caliber according to the species of game to be shot, remember that a .22 bullet placed in a vital area counts more heavily than fifty .30 or .35 caliber misses, or mere "wounding" hits, which may be caused by the shooter being recoil shy when firing his high-powered cannon and consequently shooting only in the general direction of his game with a prayer for luck.

Do not let yourself be talked into, or forcibly ridiculed into, purchasing a bolt-action arm if you personally prefer and like to shoot some other kind of rifle. The style you have personal confidence in will bring home far more game than will a style you were merely talked into using. Confidence in your ability to hit with one style and ease of operation for your own individual requirements should by all means be the main requirements you should consider when buying a hunting rifle. Individuality is important, and you should buy the kind of rifle you shoot the best with, in order to obtain the best results.

I have personally used bolt-action guns for years, but I can distinctly recall the time I fired one shot from my .300 Savage 99 rifle at a fleeing deer, only to find out afterwards that my one shot was actually three. My hunting partner told me I fired three and I had three fresh cases lying at my feet, yet I could have sworn I only fired once. Unconciously I had levered in and fired three shots while watching that deer run. I could never do this with the bolt gun without knowing it at the time, I am quite certain. So we do take more naturally to some rifles than we do to others.

The two-rifle man will be perfectly equipped and trained for all-round shooting in his particular district. The one-gun man will be both over-gunned and under-gunned, for almost any one district he might hunt in. ♦ ♦ ♦

Toughest Target

BY PERCY BROWN

WHAT BIG GAME presents the most difficult target for the rifleman? Antelope? Deer? Bear? Not for my money! There are times when any of these animals are hard to hit, but for the toughest target of all, none can compare with the wild turkey that roams the rock-jumbled Rockies. In the West, these grand game birds are rightly classed as big game, and, in Arizona, may be taken only with a rifle using center-fire cartridges.

It's a fact that no big game has more often made good its escape in a shower of hot lead than the Western wild turkey. There are times, even, when it appears you "hit 'im solid"—yet draw a complete blank. Old Tom looks big and bold, his metallic-hued feathers shining iridescently in the sunlight; but all you feast your eyes upon is not fair target—there's lots of room between feathers and flesh!

I'll never forget the time one of my hunting partners shot at a particularly large turkey—and feathers promptly exploded into the air as if the bullet had hit a pillow. My pal whooped with delight, and chortled something about "bustin' 'im dead center!" But his outburst was premature; the turkey, minus considerable of his clothes, promptly disappeared into the nearby brush. We never did get the rascal. And, after carefully inspecting no less than a bucketful of feathers, my thoroughly humbled friend finally conceded the bullet hadn't even nicked the turkey's flesh. Although he drew feathers galore, he might as well have missed a mile!

In New Mexico, where I do most of my hunting, turkeys of either sex may be taken with shotgun or rifle; but 99 per cent of the hunters use rifles when seeking the birds, simply because they are hunted during the regular big-game season. Rifles having less than 1000 foot-pounds of muzzle energy are outlawed in this state, on turkey as well as other

big game. However, hard-nosed bullets may be used to take turkeys, which is a big break for the boys using .30-06's and the like. Naturally, it is unlawful to use nonexpanding bullets on other big game, so the turkey hunter should carry his loads in separate pockets, to avoid making the mistake of getting his ammunition mixed.

Personally, I consider a good turkey call a must for the rifleman. Properly used, it will frequently enable him to fill his tag with astonishing ease. I prefer to make my own call, but good ones may be purchased at almost any sporting-goods store. At dawn, when the birds are leaving their roost, is a good time to call up even the wiliest old tom. Another good time to use your yelper is when a flock has been scattered. If you should happen upon turkeys at close range, shoot, even though you are convinced you can't possibly score a hit. And the faster you fire, the better. The idea is to startle the flock, make them split up. When the birds are scattered you can frequently call up one of the stragglers.

It's best to rest the birds an hour or two after being flushed, or until they begin calling. I once scattered a flock shortly after noon, then returned four hours later to the exact spot where they had been dispersed—and promptly called up a big gobbler.

In the West, turkeys are often more highly prized than deer

When a bird replies to your cajoling call, be very sparing with your turkey-talk; let him do most of the vocalizing. He's the one that's lost and anxious to join the gang. When I attempt to call up turkeys, I like to sit in an island of low brush, or with my back to a tree, with rifle ready for instant use. The wary birds usually come racing to a call if they are thoroughly lonesome, but more often than not, they slow down and negotiate the last hundred yards or so at a snail's pace, stopping frequently to size up the lay of the land. Very often they will circle and approach from the off side. And when you finally catch sight of one of the birds, you are apt to see only his long, straight neck and bald, bluish head. Seldom, indeed, will he show his full body.

At fifty paces, that small target will tax even the most expert shot—and if you miss, you'll probably not get a second try; the rascal will dart away, using every bit of available cover with the skill of a woods-wise whitetail. If you are fortunate enough to make out his body as he stands like so much granite, you can very likely down Mr. Turkey with ease. The best place to hit a turkey, I've found, is high in the back, which puts him down and keeps him down, wasting little or none of the delicious meat. When a wounded turkey can keep his feet under him, he'll get away almost every time.

A Western turkey seldom takes wing at the approach of danger. Unless startled at close range, he will almost invariably race away, darting and dodging through the brush with the speed of a shot-at whitetail. If he is running uphill or on level ground, he will very likely keep running, even when shot at; but if he comes to a downhill stretch, look out! He will spread his wide, strong wings and fly away as if jets are in his tail. Awing, he has been clocked doing sixty miles per hour, which is faster by far than the very best time of many of the feathered tribe.

There is one thing that turkeys the country over seem to have in common: the love for water. Western turkeys delight in visiting even the smallest streams, where they will drink their fill, then tramp around, loafing and feeding for an hour or so before departing for some secluded retreat. When attempting to locate the flocks, the hunter should especially keep a sharp watch for turkey sign near water. If it appears the birds are visiting the stream regularly, you can often waylay them when they show up for their morning's drink.

If the turkeys fail to come in, make a few calls with your yelper before leaving your stand—you may be as lucky as I once was. I remained in hiding near a small tricklet until, finally convinced the birds weren't going to show up, I was just about to give up and strike out down the canyon. On second thought, I decided to send out a few seductive calls, just to see what would happen. And my first call got results. A bird answered high up on the mountainside, directly behind me. Again, I worked the call, then laid it aside and picked up my rifle. It was well that I was all set for action. At that very moment I heard the soft "s-w-i-i-s-s-h-h" of wings directly overhead—and looked up at the bellies of five monstrous birds. They overshot my stand, came to the ground 75 yards out. As they stood there, their sharp, beady eyes probing the near-by cover for the pal they expected to find, I brought my sights on a fine young gobbler and filled my tag then and there.

Should your call fail to bring results, walk out a bit of the canyon before going elsewhere to hunt. You may find the flock loafing about near the water's edge, a mile or more from your stand. In fact, it is often that a flock will "use" in a mile or two of some deep canyon—and may be found in one end one day, the other, the next.

When you walk up a flock, it'll be dollars to doughnuts

that they will see you first. If they take out afoot, as they very likely will, keep after them. You might get a shot. If you suddenly lose track of the flock, no matter if they're up or down the canyon, watch the hillsides closely. Turkeys will rarely run far in a canyon without taking to the mountainside. And Western turkeys seem to have a mountain-goat complex; they will frequently race up the face of the most rugged mountain, using their wings only to crow-hop over boulders. When you spot a flock wending its way up the face of a sheer rock wall, you'll have a good chance to try your skill as a marksman. Best of all, if the turkeys don't take to the air with your first shot, frequently they will continue afoot, even when in plain sight. Under these circumstances, you can stand in your tracks and bust a dozen caps at 'em, if need be.

The Western, or Merriam's turkey, is unlike his Eastern brother in many respects. His coloration, especially, is different. The Western birds have more white on their feathers than the Eastern turkeys, even to the tip of their tails being white instead of chestnut. In fact, when a Western turkey is seen from the rear, white seems to be his dominant color—which is the best possible camouflage in the sunny, boulder-studded land he roams. I've seen wounded turkeys lie in the open, their heads flat on the ground, and fool the sharpest-eyed hunters. It is next to impossible to see one of the rascals when he's playing possum right under your feet.

In all probability New Mexico will eventually pattern after Arizona and ban shotguns in the taking of turkeys. In the hands of inexpert turkey hunters, the scatterguns frequently wound more birds than they kill outright. With the rifleman, the picture is different. If a rifle slug hits a turkey sufficiently hard to wound him fatally the bird rarely escapes. And when you are fortunate enough to kill a bird, you will not wound others in the flock. When a rifleman attempts to line his sights on a turkey he's tackling the toughest target imaginable. With the average marksman, the odds are in favor of the turkey. Then, too, the very poorest rifle shot may blast away at a turkey to his heart's content with little likelihood of hitting the bird, then having it crawl off to die. When modern high-speed ammunition smacks 'em down it keeps 'em down!

So, as the record stands, Western turkey hunting is rightly a rifleman's sport. If you think you're good, match wits with Old Tom sometime; he will give you a run for your money. He has humbled more hunters than any other game! ◆ ◆ ◆

Shot Shells for Your .38

A fisherman, waist deep in Penns Creek, a Pennsylvania trout stream, saw a copperhead swimming directly toward him with only its head above water. It was a copperhead, not a water-snake. Having collected most of the 24 species of Pennsylvania snakes, he knew a copperhead when he saw one. But he didn't collect that one. He was glad he had put three shot shells in his .38 Special revolver. It saved him the trouble of trying to avoid a copperhead in three feet of water.

Such shot shells are easy to load. The tools needed are a .38-caliber wad-cutter punch or a .375-inch leather punch, several ⅜-inch washers, a small paper funnel, a squared-off lead pencil, and two carpenter's scribes or icepicks.

Materials used are a piece of wood one inch thick with several ⅜-inch holes drilled in it, some good quality cardboard for wads, a quantity of number 8 shot, and a small piece of beeswax or paraffin.

The regular cartridge is inserted from the bottom into one of the holes in the piece of wood, bullet up. Washers are placed over the top of the cartridge up to the level of the brass. The two scribes are pressed into the opposite sides of the lead bullet close to the brass and it is pried upward.

After the bullet is started a little, another washer put over it to raise the fulcrum will insure a straight pull. If a perfectly vertical pull is exerted the rim of the brass will remain a perfect circle.

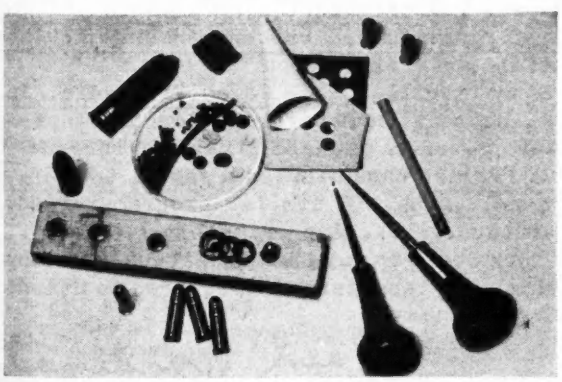
After the bullet is removed a cardboard wad is slipped into the shell immediately to prevent the powder from spilling out of upset shells. Two more wads are put over the first one. Push each wad down firmly with the flat end of the lead pencil. Felt wads cut from an old hat may be used if a cushion effect is desirable. Through the paper funnel seventy-five number 8 shot are poured into the shell above the three wads and the shell is tapped lightly to seal the shot properly. One wad with the desired data printed on it is placed over the shot. The eye end of a large needle is heated, some beeswax is collected on it and applied around the edge of the wad, sealing it to the inside rim of the cartridge case.

And how can these shot shells be expected to perform? The patterns made when they were fired in a .38 revolver with two-inch barrel were as follows:

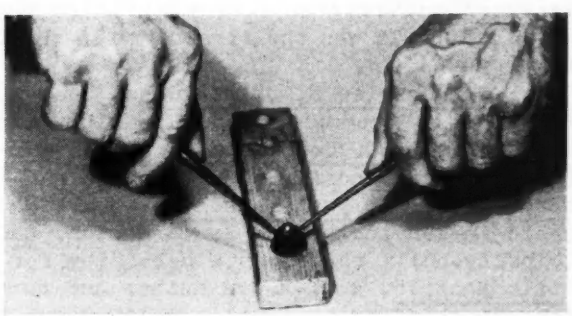
At three feet all of the number 8 shot were within a three-inch circle, and penetrated one inch of white pine board. At six feet all pellets were inside a six-inch circle with penetration of three-quarters of an inch. At nine feet nearly all of the pellets were in a ten-inch circle and gave over half inch penetration. At twelve feet most pellets were in a fifteen-inch circle with one-quarter inch penetration.

With a four-inch or six-inch barrel the patterns are all slightly smaller than those stated above, with greater penetration.

With two or three of these shot shells in the first chambers of his .38 revolver and several extras in his pocket, a fisherman is well fortified for a trip into the woods.—*Harold W. Musser.*



These are all of the tools needed for simple shotshell reloading



Lead bullets can be pulled by dropping washers over the cartridge to provide a fulcrum for a couple of carpenter's scribes or icepicks

THE SPOTTING SCOPE -- October 1950

The NRA Board of Directors is being presented with the full details of the new NRA Basic Rifle Training Schools program at their San Francisco meeting early this month. All NRA members should have full details in a few weeks. Basically it is the same type of program which helped train thousands of men in the use of small arms during World War II (see editorial, page 10). . . . W. E. Bailey, of Williamsport, Pa., is the new Canadian smallbore champion. He fired a 1969-100 out of a possible 2000 to take the crown. Two other Americans, Larry Moore, of Aberdeen, Md., and W. Tomsen, of Flushing, N.Y., finished second and third. Incidentally, Col. R. J. Birtwhistle, genial secretary of the Dominion of Canada Rifle Association, has been on the job for 42 years. He had a bad tussle with a truck last winter but was as busy as ever at the 82nd renewal of the Canadian Championships held at Connaught Range, Ottawa. . . . The Florida Peace Officers Association recently went on record as opposing the enactment of any state or national registration of firearms. . . . Old-time woodcarver Frank X. Ferg died recently at his home in Merchantville, N.J. Ferg posed for the cover of the January, 1949 Rifleman, which started a still-going revival of interest in carving on rifle stocks. As a result of the Rifleman's how-to-do-it on his carving methods (written by son-in-law George Crossette) Ferg received a record-breaking load of mail from gunbugs in all 48 states.

Two changes in the DCM office: Col. Frank Lloyd, Col. Strain's assistant, is temporarily hospitalized awaiting a new assignment, and WAC Major M. J. Wehrly has been transferred to Ft. Benning, Ga. . . . Major-General William F. Dean, missing-in-action commander of the 25th Infantry Division now putting up such a gallant fight in Korea, was an NRA member of long standing. . . . Dr. William Carlisle Barr, Jr., 43, National Intercollegiate Rifle Champion in 1931 while attending the University of Maryland, died in Florida recently. . . . Ronald Earl Kuch, son of NRA staffman George Kuch, recently called into service by the Marines, qualified as an expert in the Marine rifle qualification course. . . . Bud Waite is the latest of the NRA staff to be called back to service. Bud's technical experting will have to wait while he serves as a captain in the Infantry. . . . Dave Carlson, well-known smallbore shooter who has just missed being national champion by a hair several times, is now assistant superintendent of the gun manufacturing division of the Winchester Repeating Arms Company. . . . Rudy Etchen, noted skeet and trap shooter won the doubles at the Grand American, in Vandalia, Ohio, with 100 x 100. It was the first time in the history of the shoot that a perfect doubles score was turned in.

Colonel Charles F. Densford has been assigned to Fourteenth Air Force headquarters as Director of Operations and Training. His new headquarters is at Robins Air Force Base, Ga. . . . Lt. Col. Charles Askins has just completed his tour as ordnance officer for the 82nd Airborne Division and is on his way to Spain for a new assignment. . . . Elinor Bell, H. A. Tegner and Gene Bunstine are to be congratulated on the yeoman work they did in convincing the Santa Monica, California Recreation Council that a municipally-built range was a necessity for the city. . . . Conservation Notes: Alastair MacBain, well-known author and outdoor writer has officially been announced as the new chief of the public relations department for the Federal Fish and Wildlife Service. . . . The eleven-year fight by outdoor sportsmen and writer-conservationists to expand attention for restoration of the nation's sportfish resources ended successfully when President Truman signed the Dingell Bill. . . . James F. Herdic, Jr., assistant superintendent of the East Orange, N.J. Recreation Department for the last four years and a great friend of shooting, has taken over as superintendent of recreation in Rutland, Vermont. . . . The DeKalb, Ill., Police have started a school to teach the town's youngsters the proper way to handle guns. A similar program for adults and older youths will be instituted in the near future. . . . Approximately 1,000 teen-age hunters have been certificated in New York State to buy hunting licenses. They are graduates of the NRA Junior Hunter Program which the teenagers are required to attend by the new Empire State law.

Paul Cardinal

DCM REPORTS

Forms for the Annual Report of Firing and the Annual Inventory of U. S. Property, required by the DCM, were mailed to all junior clubs and college clubs early in September and will be mailed to senior clubs (including junior divisions) in the northern part of the U.S., October 1st, and in the central and southern parts, November 1st. These reports should be mailed to the DCM as soon as possible and not later than 30 days after receipt of the forms.

Reports will not be required of clubs which have enrolled with the DCM during the last three months. The Annual Inventory will not be required of clubs which have not been issued rifles or other non-expendable U.S. property, but the Annual Report of Firing must be submitted if enrolled over three months.

Reports are required from all clubs each year whether or not request is made for an issue of supplies. Delay in submitting these reports or in renewing the club's NRA affiliation will delay the issue to the club of supplies requested for the coming year. No issues of ammunition or supplies will be made to a club until correct 1950 annual reports and notice of NRA re-affiliation have been received by the DCM.

Last year many clubs submitted incorrect or incomplete reports. This made necessary much correspondence between the DCM and these clubs, and delayed the issue of supplies and equipment because of their failure to submit correct or complete reports or to reply to letters from the DCM regarding these reports. Club secretaries can be of great service to their membership by prompt and careful attention to these matters and thereby insure receiving ammunition and supplies promptly.

Requisition blanks are sent all clubs with the forms for their annual reports. Requests for ammunition, targets and other supplies should be forwarded on these blanks at the same time as the annual reports. Remember that the issue of ammunition for the coming year will be based entirely on the number of members shown in the Report of Firing as having fired an authorized Army (Seniors) or DCM (Juniors) qualification course for record, regardless of whether a qualifying score was made. The Report of Firing should show all firing between the dates shown on the top of the form.

Be sure to notify the DCM in all cases of changes or anticipated changes in club secretaries, principals on bonds covering government property, instructors of junior clubs and other club officials. This is especially important at this time when changes may occur due to the entry of such individuals into the armed services. In each such case, the DCM should be advised in order that his office may be able to communicate with the proper official in matters pertaining to the club.

RIFLE SALES SUSPENDED

Due to the great increase of work in Ordnance installations in supplying the needs of the armed forces, the Ordnance Department was forced to suspend all sales of rifles to NRA members until further notice.

This suspension of sales became effective the first of August and applied to all orders for rifles received by the DCM which had not been forwarded to Ordnance arsenals.

Members who did not receive their rifles are requested not to write the DCM. Each member will be notified as to the status of his order. When sales of rifles are resumed, announcement will be made in the AMERICAN RIFLEMAN.

JUNIOR POSTAL MATCHES

The National Junior Postal Rifle Matches will get under way next month. Record targets will be fired by junior teams from every section of the country. The competition will continue for four months (November, December, January and February). Each month fired targets will be mailed to official scorers who in turn will mail the record scores to the NRA. A complete bulletin of the standings will be prepared each month and mailed to all junior clubs.

Eligibility: Teams representing affiliated junior rifle clubs. Each junior club may enter several different teams. A team must consist of at least five and not more than ten firing members. The high five scores will be used as the team score in each match. This junior competition will be divided into five divisions as follows:

Division A: Two position Championship. Open to any junior club. Team firing will be done from the prone and standing positions.

Division B. Scholastic Championship. Open to any team from a junior club which represents a secondary school. Firing will be done in the prone position.

Division C. Non-Scholastic Championship. Open to any team from a junior club not representing a secondary school. Firing will be done from the prone position.

Division D: Sub-junior Championship. Open to teams whose members are under fourteen years of age. Firing will all be done from the prone position.

Division E: Girls Championship. Open to girls teams. Firing will be done from the prone position.

Programs and entry forms have been sent to all junior clubs. If your club did not receive the mailing, write to NRA for copies of the program and entry forms.

GALLERY LEAGUES

Now is the time for clubs to begin laying the groundwork for their members participation in the 1950-51 NRA Gallery League Championships. Clubs can organize a league limited to members of their own organization —or a league can be formed composed of members of several clubs located in the same vicinity. Either type will afford not only fun for shooters but will give them an opportunity to earn an NRA classification. Leagues must have a minimum of three teams with four firing members each.

The NRA league competition carries through to national league team champions in both rifle and pistol with a target rifle and target pistol as the awards. A trophy and medals also go to the state and national winners. Winners in each registered league get a plaque and brassards.

Now is the time for clubs to decide on which type of league is preferred, size of teams, schedule, conditions, etc. For best results clubs should have their preliminary work completed when the NRA league mailing is made to all NRA club and league secretaries. Leagues can start firing before entry is made in the NRA registered league program. Entries will be accepted anytime up to January 15, 1951.

COMING EVENTS

Tournaments and other important events listed below include all State Championships that have been registered with the NRA. The current Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered tournaments that were reported to NRA Headquarters by March 15, 1950. Tournaments other than championships are not listed in this column after the publication of the seasonal schedule.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

STATE CHAMPIONSHIP TOURNAMENTS AND OTHER REGISTERED TOURNAMENTS

OCTOBER

Sept. 30-October 1 MASSACHUSETTS—Massachusetts State Smallbore Rifle Tournament at Framingham, Massachusetts. Kent R. Bulfinch, 444 Belknap Rd., Framingham, Massachusetts.

Sept. 30-October 1 OHIO—Ohio State Outdoor Team Rifle Championship at Camp Perry, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio (Adv.).

21-22 ALABAMA—Alabama State Small Bore Rifle Championship at Mobile, Alabama. R. E. Hartman, 201 Levert Street, Mobile, Alabama (Adv.-Ltd.).

21-22 OKLAHOMA—Oklahoma State Small Bore Rifle Championship at Tulsa, Oklahoma. R. G. Hannifield, 1139 South Florence Place, Tulsa, Oklahoma (Adv.-Ltd.).

NOVEMBER

11-12 CALIFORNIA—Pacific States Fall Smallbore Round-Up Tournament at Monterey Park, California. Mrs. Gladys Rising, 600 North Mayo, Compton, California.

December 2-3 ARIZONA—Arizona State Smallbore Rifle Championship at Phoenix, Arizona. Mr. A. Donald Amesbury, 4065 Montecito Avenue, Tucson, Arizona.

CHANGE OF DATES AND CANCELLATIONS

October 7-8 ARKANSAS—8th Annual Arkansas State Rifle Tournament at Little Rock. Mr. Gerland P. Patten, 521 Pyramid Building, Little Rock, Arkansas. (Note: This Tournament has been cancelled.

October 13-14 TEXAS—Ada Zilker Robinson Pistol Tournament at Austin, Texas. Mr. Joe B. Taylor, 1204 W. 10th, Austin, Texas. (Note: Old date scheduled for October 14-15.)

October 15 CALIFORNIA—Bay District Smallbore Rifle Tournament at Richmond, California. Ernest J. Martin, 2904 Maricopa Avenue, Richmond, Calif. (Note: Old date scheduled for October 2nd.)

October 29 FLORIDA—Palmetto Pistol Club Tournament at Coral Gables, Florida. A. T. Kelley, P. O. Box 43, Coral Gables, Florida. (Note: Old date scheduled for September 3rd.)

November 23-24 NORTH CAROLINA—1st Annual Camp Lejeune Thanksgiving Rifle and Pistol Tournament at Camp Lejeune, North Carolina. Major S. Saussy, Jr., G-3 Marine Barracks, Camp Lejeune, North Carolina. (Note: This Tournament has been cancelled.

ADDITIONS

September 30-October 1 TENNESSEE—Tennessee State .30 Caliber Championship at Knoxville, Tennessee. A. W. Nine, Volunteer Rifle and Pistol Club, Knoxville, Tennessee.

October 8 NORTH CAROLINA—North Carolina State .30 Caliber Rifle Matches at Winston Salem, North Carolina. Mr. E. H. Warren, 307 S. Ridge Avenue, Kannapolis, North Carolina. (New Tournament.)

November 4-5 TEXAS — 1st Annual Chemcel Matches at Bishop, Texas. Mr. Arthur Green, Box 148, Bishop, Texas. (New Tournament.)

STOLEN GUNS

One A Model 12 Winchester trap, 12 gauge. Serial number 720509. One A Enfield 30-06. Serial number 309153. Mr. J. V. Robins, Castle Rock Rifle and Pistol Club, Castle Rock, Washington.

One U. S. Enfield 30-06. Model 1917. Serial number 162032. One U. S. Springfield 30-06, model 1903. Serial number 803164. Mr. W. N. Gauss, 517 Jeffrey St., Bakersfield, California.

One Colt Challenger, 4½" bbl. Serial number 9630. Mr. L. Masche, Colorado Sportsman Supply, Loveland, Colorado.

One Remington 380 Automatic. Serial number PA-2714. Mr. Dallas Brewer, 4409 6th Avenue, Sacramento, California.

Dope Bag

answers by THE RIFLEMAN'S PANEL OF EXPERTS

Julian S. Hatcher • Al Barr • Elmer Keith • M. D. Waite

HUNTING TRIPS AND GUIDES

I have been interested in guns and shooting all my life. I have hunted deer in Maine and Canada but have never had a real trip. Could you give me some helpful information as to where to go and who to get in touch with? From your very wide and thorough knowledge of big-game hunting, I thought maybe you could help me out. Could you give me the name of a reliable outfitter in British Columbia, Yukon Territory and Alaska?—RALPH L. MEZGER, Ossining, N. Y.

Answer by Elmer Keith: For a winter hunt to Old Mexico, better get in touch with my old friend George W. Parker of Amado, Arizona. George can give you the best to be had down that way.

For southeastern Alaska, get in touch with my old outfitting partner, Arthur H. Kinnan of Juneau, Alaska, for the best in bear hunts. For brownies on Kodiak Island or on the Alaskan Peninsula and for game in the Interior, get in touch with Ward Gay or Jim Simpson, who outfit from Anchorage, Alaska, and Charles Madsen, who outfits from Kodiak.

For British Columbia, I know of no man I would rather be out with than Westley Brown of Fort St. John. Edgar Dopp, also of Fort St. John, B.C., is also good; Jim Ross, of Hudson's Hope, B.C., is another very reliable outfitter. Johnny Johns, of Carcross, Yukon Territory, has given several of my friends some very fine hunts.

There is an element of luck in all such trips. Even with the best outfitters, you don't always get a break in the weather and get the game, but these men usually deliver.

COLD BLUES

A. B. Harris, P.O. Box 505, Gary, Indiana, has brought to our attention the almost complete similarity of Gunsmith's Magic Bluer, which he has featured for some time, and Brownell's Perma-Blue which we reported on in the August 1950 issue of the RIFLEMAN (page 45). Since that time we have made a direct comparison of the two cold-process bluing preparations, which are ideal for touch-up purposes and under certain conditions for bluing complete guns. Both preparations are applied in the same manner, and instructions are almost identical for Magic Bluer and for Perma-Blue. When these bluing preparations are used in temperatures under about 70 degrees, the bluing doesn't take too well. But when the metal is warmed enough, the bluing will take much better. Then we can find no difference in the bluing qualities of the two products.—AL BARR.

GRIGSBY DETACHABLE MOUNT

We have been using a new mount that shows considerable promise and should fill a long-felt need. Many riflemen-hunters have wanted a mount that would permit having their Lyman 48, Redfield 70, or Williams Fool Proof aperture sight in place on the rifle at the same time as the scope—a mount which would permit jerking the scope off the gun in an instant's notice and yet leave the receiver sight in place for instant usage. That is just what the new Grigsby mount, made by the Grigsby Engineering and Mfg. Co., 125 West 29th Ave., Los Angeles, California, accomplishes.

The Grigsby mount incorporates a pair of clamp arms that are adjustable, on a long round spring-loaded bar, for spacing the two and position on the bar. The front clamp has a stud on the bottom that slips into a base on the receiver ring. The stud will drop into the hole in the base with a minimum of movement, then the spring-loaded plunger in the arm bar locks it forward against the undercut in the receiver base. The rear end of the spring-loaded round bar carries a hardened, rounded-point plunger that slips snugly into the front of the aperture of the receiver peep sight. Spring adjustment in the bar is adjustable by an Allen screw in the front end, and by using springs of different tension from 20 to 40 pounds. The recoil thrust is, of course, taken up by the front base and upper forward arm.

Position of the scope is necessarily high enough for the scope tube to clear the top of the receiver sight aperture into which the spring plunger locks the scope on the rifle. To remove or replace the scope you simply pull it back against the receiver sight aperture and lift up the forward end—the scope is off the gun. It replaces in the same manner. Merely insert the spring-loaded lunger in the front of the sight aperture, pull back and drop the forward clamp arm stud into the hole in the top of front base and let the assembly go forward into perfect locking position.

So far, the mount has worked well for us. One user phoned us from California to say that the mount had stood up perfectly for some months for him on a .375 Magnum.

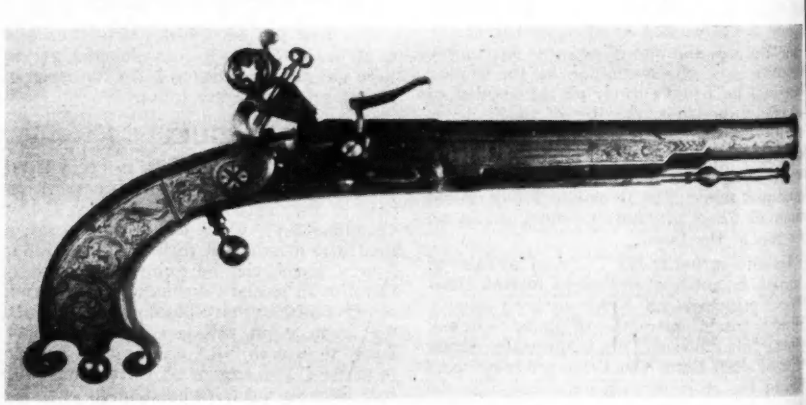
The mount is well made of good steel and yet is light in weight. It sells from $16.50 to $18.50, with one-piece ring or two-piece split rings for the larger scopes. Clamp rings are adjustable for position and locked on the rod with Allen screws.—ELMER KEITH.

.300 MAGNUM WILDCAT

I intend to have a .300 Magnum made shortly and I need a little advice. Having a little of the "wildcat" in me, I cannot decide between the Ackley Improved, the CCC or the Weatherby Magnum. Could you list, for example, a near maximum load for each using the 150-grain Sierra bullet so I can get an idea of case size. Incidentally, recoil does not affect me to a great extent.—GROVER GLOSSINGER, Los Angeles, California.

Answer by Al Barr: In my opinion, there is very little on which to base a choice between the .300 CCC Magnum, Weatherby Magnum, and Ackley Improved Magnum. All hold about the same amount of powder and, therefore, should give about the same velocity. As for accuracy, I can't see where one would be superior to the other. If I were making a selection, I probably would toss a coin to decide which.

I would not recommend the maximum load for any one of these calibers. Get your loading data from the man making the gun.



This Scottish Highlander pistol was made by Alex A. Brazenos, of Newark, N. J., after the RIFLEMAN cover of November 1947. The barrel, from the breech end of .50-70 single shot, is nine inches long; the pistol is fourteen inches long. Engraving was etched in nitric acid and deepened with a chisel.

LAMINATED GUNSTOCKS

Since publication of the article on laminated gunstocks (January 1950), we have learned that for quite some time there has been considerable interest in stocks of this kind. In addition to those shown in the January issue, we have seen a number of other laminated stocks and are having some fitted to a number of benchrest guns in an effort to get increased accuracy from them. Many of the blanks are not built for looks but for stability of the wood. Ruggedness and stability are two of the main features for this type of stock construction.

One blank of very large proportions for the benchrest gun, received recently, was sent in by R. I. Owen, Townsend Road, Watkins Glen, N. Y. Also, C. J. Franks Laboratories, Box 59, Boonton, N. J., has been working with laminated stocks for some time. Franks and I have the same idea about the value of a rigid stock, with soft wood to mount the barrel and action in. The laminated stock makes this possible, and Frank's new experimental stock has an inlay of soft Honduras mahogany.

Other laminated stock blanks can be obtained from Gill's Gunstocks, 245 N. Emporia, Wichita, Kansas. These come in different patterns and different types of wood. Prices range from $15 a blank up.

We learn also that Banks-Maxwell Propeller Co., Rt. 12, Box 11, Fort Worth, Texas, is going to turn out a semifinished laminated target stock of black walnut, maple and cherry. In addition, we are told that the Custom Stock Shop, 9 Sylvan St., Richfield Springs, N. Y., can furnish very heavy, target-type laminated stocks.—A. H. Barr.

GUNSMITHING KINK

A day or so ago one of my customers came in with a rifle I had built, but which he had stocked himself. His complaint was simple—poor accuracy. In looking it over, I noted that the bolt handle (the rifle is an FN Mauser) was bearing on wood. That is, he had not removed enough wood to allow the bolt handle to close all the way, forcing the bolt forward and keeping the locking lugs slightly forward of the recesses. A bit of scraping and the rifle shot fine. In fact, the man shot a .521-inch average at 100 yards in the 1950 DuBois, Penna., benchrest matches.

When scraping out this wood, use Prussian blue or lampblack and be sure the bolt handle does not touch wood when you are through. It is easy to scrape until no more blue or black shows, but be sure there is still some blue on the bolt handle. I have seen instances where the shooter forgot that scraping and fitting took the blue off the handle and he forgot to replace it.

Another important item is proper forming loads for fire-forming .219 Donaldson cases. A strong load such as 24 grains 4198 should be used. A lighter load seems to result in excessive split cases.—Bob Wallack, Jr., Langhorne, Pennsylvania.

CAUTION FOR CARBINE RELOADERS

In the Dope Bag (April 1950) I noted a discussion on handloads for the .30-caliber M1 carbine and feel called upon to say a word of caution.

As an Ordnance officer during the late war, one of my duties was the operation of a fourth echelon small-arms shop where large

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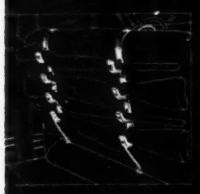

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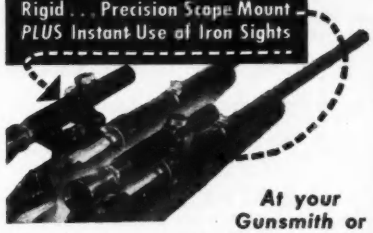

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numbers of carbines were remodified, ov hauled and refinished. Several carbines th had been used in training only a short ti were brought in with the right-hand lockin lug broken off the bolt. The trouble seeme to be that in attaching the extractor, a ho was drilled through the body of the bolt, j inside the right-hand locking lug, to rece the pin which is part of the extractor. Qui a lot of material was removed, which wea ened the bolt considerably.

I notice that the manufacture of a certa early lot of carbines was notably poor, s it is possible the left lugs on these particula weapons did not have proper bearing an put all the thrust onto the weakened righ lug. Later, overseas, I saw thousands of ca bines take unbelievable punishment and con through serviceable, but I cannot forget thos broken bolts.

In working up handloads, I would advis one to proceed with caution. Stop as soo as primers and cases indicate normal pressure and never exceed it.—HAROLD B. PHELPS, Montpelier, Vermont.

AMMUNITION FOR .275 H&H

Will you please advise me as to whether .275 H&H cases or loaded ammunition are to be had. If so where? Also, who in my part of the country would have .275 reamers.—W. KNEUBUHLER, Toledo, Ohio.

Answer by Elmer Keith: J. W. McPhillips, 285 Mastick Ave., San Bruno, Calif., I understand, makes .275 H&H cases from .300 Magnums and can furnish loads. British loads are also obtainable from Abercrombie & Fitch, 45th Street and Madison Ave., New York, N. Y.; Philip J. Medicus, 18 Fletcher St., New York, N. Y.; possibly Stoeger Arms Co., 509 Fifth Ave., New York, N. Y.

I believe Griffin & Howe, 202 E. 44th St., New York City, have reamers and can turn out .275 H&H rifles, as can Paul Jaeger, Jenkintown, Penna., and many other custom makers advertising in the RIFLEMAN.

HUNTING LOADS

I have just put a Unertl "Hawk" scope on my .270, so have an interesting combination all round. You may recall that I said that I'd been trying 58 grains of No. 4350 with the Sierra 110-grain bullet, getting satisfactory hunting accuracy, but with the groups showing a slight tendency to string up and down. Addition of one-half grain more powder cured this completely and the groups tightened to right on a minute of accuracy. However, with your belief that I couldn't get enough 4350 into the case behind a 110-grain bullet to cause excessive pressure, I went on up as high as 60 grains. This just about fills some makes of cases, notably Winchester Super-speed and Remington. In addition I used a .046 Ipco wad. My rifle is a Model 54 which the factory went over, gas-porting it, retreating the receiver, installing a speed bolt, etc. It is strictly a hunting gun and noticeably lighter than a Model 70. However, this 60-grain load shoots easily under minute and a half and is very quick. Velocity is something to merely guess at, of course. I do know that it is appreciably faster than the 130-grain bullet with 57 grains of 4350 which, according to your chronographed figures, is about 3,140 foot seconds. Shooting these two loads side by side at a cliff of rock some 350 yards distant from the bench rest, the difference between the speed of the two

loads is considerable. If I had to guess, I'd say the load was somewhere around 3,300 to 3,400 feet.

I got another varmint the other day with our recommended load of 48 grains of 4350 and the 87-grain bullet in the .257. There were several pairs of quail nesting in close about the cabin and I noticed that they seemed uneasy and nervous. I suspected either a stray house cat or a hawk. Sure enough, it was one of the latter and it came coasting in to an oak tree about 100 yards out. As it happened, there was no way I could get a rest for the shot so had to try it off-hand. Just happened to get away a perfect letoff, and did that hawk come apart at the seams! There was just one big spurt of feathers and that was all.

Incidentally, that 48-grain load in my Model 70 .257 is finely accurate, very close to minute-of-angle on the days when I'm holding well. In the same gun, the 117-grain Sierra and 45 grains of 4350 is superb. The first group I shot with this combination went ⅞ inch, center to center, and any time I go over a minute and a quarter it is me, not the load or the gun. One thing I've noticed in all calibers with 4350—when you get a load that is burning the powder properly, the vertical constancy is amazing. Invariably I've found that the greatest dispersion of a group is lateral and that is the human element entering the picture and some days I'm damned human.

Next time I go out to the range I'm going to try the Sierra 150-grain boattail in the .270. I've shot the 150-grain Speer ahead of 52 grains of 4350 quite a bit and found it good for minute and a half or better, regularly. Expect the Sierra bullet to do fully as good and probably better. This is a fine load for the big mule deer of the lava beds. Someday I'd like to see this bullet tried at a thousand yards in a .270 bull gun. I'll bet it would be something.—Bill McCandless.

REMINGTON HEPBURN RIFLE

I would like to get some information on what I could do with a Remington Hepburn .25-20. It is in good condition, except for the barrel.

Would it be wise to make a conversion, and to what caliber for varmint? Would it be worth the trouble?—Theodore A. Gabriel, Beachwood, N. J.

Answer by Al Barr: The Remington Hepburn action has been used frequently for rebarreling or sometime relining to varmint cartridges such as the .22 Hornet, .218 Bee and even the 2-R Lovell. The address of a barrel reliner is Paul Pearson, 3944 N. 40th Ave., Omaha, Nebraska. Others who do relining are Becker & Kearfoot, Water Street, New Rochelle, N. Y., and Tom Mooney, 305 Sandhurst Dr., Dayton 5, Ohio. Sometimes the old barrel can be relined to make as satisfactory job as a new barrel at no greater cost—that is, when you want to keep the old rifle in its original appearance and condition on the outside. Frankly, for the small cartridges listed, I'd just as soon have a relined barrel as a new one.

The major drawback to the Remington Hepburn is the side lever, which might cause extraction difficulties with longer cartridges. That is why the smaller cartridges seem to be best.

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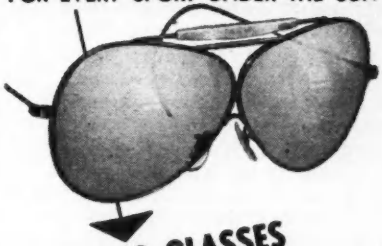

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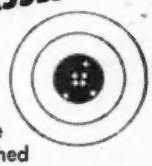

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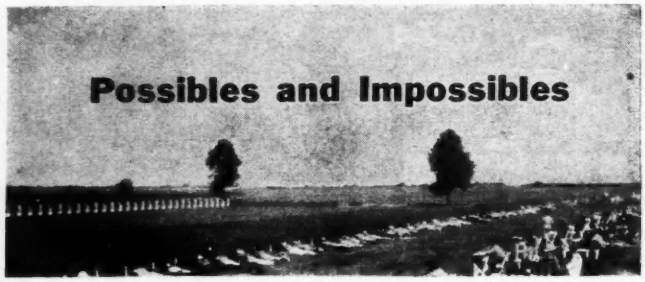
A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 13, NO. 10 BRIDGEPORT, OCTOBER,



The other day while browsing around in the Remington Testing Range we picked up a box that had a strangely familiar look, but was not current production. Someone had uncovered a carton of fifty 22 long rifle cartridges that had been made 30 years ago. It was called "Palma" but not the "Palma Match" in the familiar red carton that we used to put out. The cartridge lubricant seemed all right and the stuff looked good and fresh. Here was a good opportunity to find out something about ammunition accuracy as it was 30 years ago, so we put a Model 37 on the rest and the usual targets at 100 yards. Firing was done in 10-shot strings. The first four groups were well within 2 inches. Since someone had apparently claimed a souvenir from the carton, the last was a 9-shot group—and was just about an inch. It should be remembered that this was Lesmoke stuff 30 years old and, while it did not shoot quite up to present day standards, still the groups were round and well under 2 inches. Frankly, it was quite a revelation to find that this 30-year-old ammunition would make such fine groups when, at the time it was made, 2 inch groups were all that could be expected. In other words, if the stuff shot 2 inches it was good. However, back in those days the first 400 over the Dewar course had not yet been made and 390's were good scores.

* * *

A short time ago one of our readers wrote in to compliment us on our cartoons—but wondered where we got the "screwy" ideas for them. Well, we must confess to a slightly over-active imagination, but surprising as it may seem many of our cartoons are based on actual experience.

Just for the record, we decided to keep our eyes open at a summer Regional Match and see how many out-of-the-ordinary things we could spot. Here's what we had noted in our little black book at the end of the match:

1. Man shooting in bare feet. (Cartoon idea: boa constrictor type—has to curl toes around blades of grass before firing.)
2. Shooter with ventilated barrel. (Cartoon idea: rifle shoots so cool icicles form and range officers accuse owner of shooting muzzle and elbow.)
3. Shooter with weather vane on barrel. (Cartoon idea: the type who can always give you the exact reason why he missed the x-ring.)
4. Shooter wearing wife's cast-off straw hat. (Cartoon idea: the type who always *insists* he isn't superstitious—he just wears it for luck.)
5. Crying towels at scoreboard. (Cartoon idea: for the comfort and convenience of those who *have* to see their own scores in writing.)

So you see our cartoon ideas aren't entirely imaginary. We find them wherever there are match rifle shooters—the kind of sportsmen who don't mind a little good-natured kidding.

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...PORT, OCTOBER, 1950 — First Class Reading Matter for Rifle and Pistol Shooters

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Visitor Gets Friendly Reception From Easy-Going Manhattan Pistol and Rifle Club

A newcomer doesn't remain a stranger long at New York's Manhattan Pistol and Rifle Club. Before you've been in their basement gallery a dozen minutes someone will say, "Like to try my single shot?" "See if you like this gun—I designed the grips myself."

In a minute you're standing at one of the club's nine firing points, your hand on the switch that sends the electrically operated target carrier scooting back to your booth. The shooter in the next booth may be blamping away with a .45. The noise doesn't bother you. Thick insulation between the booths absorbs most of it.

When your string is done you are welcome to plop your feet beside the dozen or so others on the battered desk. The conversation is bound to be about guns. And if the gun you brought needs a little tuning up there is a repair shop in the gallery. Ammunition and shooters' supplies are available, too.

You might think the Manhattan Pistol and Rifle Club's happy going ways come from the golden anniversary it celebrated 2 years ago. Or, from security, for the club's funds are largely paid by renting the range to other clubs, and opening it to the public for firearms training under the name Manhattan School of Firearms.

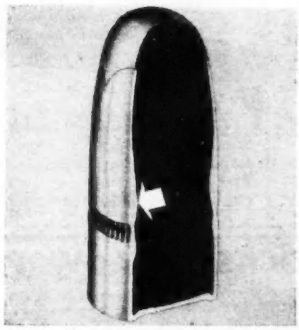
But don't be deceived by this relaxed atmosphere. Club members aren't forgetting that they had a man on the 1934 American Olympic Team and that the 1948 Olympic Pistol and Rifle Team was coached by the club's president. They're living up to their proud reputation.

An active junior program is in progress. Dozens of teenage New York shooters learn their abc's at the club. Local and visiting police are welcomed, and many bank guards keep their pistol eyes peeled on the club's range.

Manhattan Pistol and Rifle Club is a busy place, all week long. But it's 120 members aren't hurrying. They're enjoying their hobby!

SHOCK POWER OF "CORE-LOKT" BULLET DROPS ANY GAME IN NORTH AMERICA

Bridgeport, Conn., Oct., 1950—Remington "Core-Lokt" bullets provide the greatest possible shock power in big game, according to tests made by Remington ballistics scientists. These scientists compared "Core-Lokt" bullets with other popular types. They compared accuracy, expansion and ability of the bullet to stay together in big game.



Cut-away photo shows how bullet core is locked inside heavy mid-section of jacket. On impact, the bullet stays in one piece—for greater striking power.

Many careful tests proved, in every case, that the "Core-Lokt" design is unexcelled in all-around big game performance. And remember, "Core-Lokt" bullets are available in all popular calibers . . . for every type of North American big game.

The principal reason for this unique superiority, say these scientists, is the heavy mid-section of the bullet jacket. This locks core and jacket together, keeps the bullet in one piece — for greater striking power. In addition, a notched jacket on soft point "Core-Lokt" bullets and nose cuts in Remington's new pointed soft point "Core-Lokt" bullets provide directional spreading lines for absolutely uniform expansion.

As a result of their tests, Remington ballistics scientists recommend "Core-Lokt" bullets for best results on all big game found on this continent.

LION shot at 50 feet 30-06

GRIZZLY shot at 50 yards 30-06

DEER shot at 150 yards 300 Sav.

ELK shot at 390 paces 30-06

"Core-Lokt" bullets are available in regular soft point, pointed soft point, and mushroom types. Though many ways superior, they cost no more than ordinary bullets.

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Remington Powder Solvent is ideal for cleaning the bores and mechanisms of shotguns, rifles and handguns.

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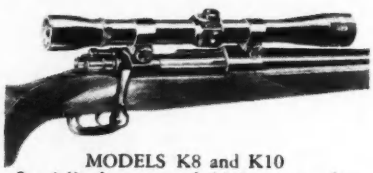

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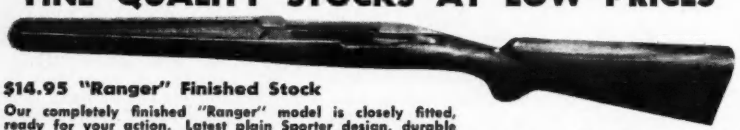

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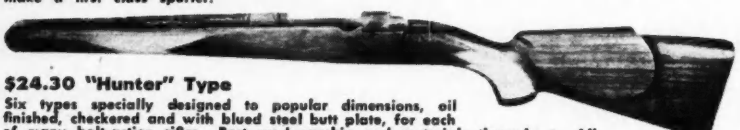

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.255 DEAN CARTRIDGE

I have an opportunity to purchase a Stevens 44 action in .255 Dean caliber. Is this a safe combination? Could the action be barreled to a better varmint caliber? I would greatly appreciate it if you could give me some data on the .255 Dean.—RICK MILLER, Atlanta, Georgia.

Answer by Al Barr: The 44 Stevens action should handle safely normal loads in the .255 Dean, which is merely a wildcat cartridge based on the .25-20 repeater cartridge. We have had several guns in this caliber and find the .255 a good practical cartridge.

If the action were the 44½ or the falling block type of Stevens action, it would be much better. Eventually, after continued use, with the .255 Dean, the Stevens 44 may develop a headspace condition.

BLUING GUNS

On page 43, August, you printed a problem on bluing by James H. Curnow. On page 67, September, you printed a correction of the bluing formula given in answer to Mr. Curnow's problem. I notice that in this correction, you have again printed the same mistake as you did in August. In other words, the correction is wrong this time. I believe that this formula should read thus:

65 ounces sodium hydroxide
17 ounces sodium nitrate
4 ounces sodium nitrite
1 gallon water

I have had a lot of experience with these alkaline bluing salts and use them almost exclusively. Unless the greater part is sodium hydroxide, the result will be failure.

I have also had the same troubles that Mr. Curnow had, and I am sure that they result from foreign matter entering the solution or from impurities in the salts themselves. Pitting results from using the solution before the salts have been completely dissolved. I use a lye cleaner, and when polished parts are placed in a solution of lye and cold water pitting will result. This will not happen when the lye is entirely dissolved in hot water before the steel is placed therein.

Gray streaks are the result of an impure solution. Just a small amount of metal entering the solution will cause this. A little piece of aluminum or pot metal will do the trick. A little solder will do it also. A little cyanide is useful when one is bluing soldered barrels. Another reason for the gray spots is the stuff that collects around the rim of the tank being scraped back into the solution. The best method is to see that all of the solution around the edges of the tank is wiped off and back into the tank before the solution cools and then keep the tank covered. Washing the steel with hydrochloric acid and then not cleaning it off will give one a very badly spotted blue. It *must* be all off. Even then the steel must be cleaned in a separate tank with a strong lye bath.

You will also get a bad color in some steels if the heat is not right. There is as much as fifteen degrees difference in the heat required for different steels. Some parts will come out a lovely purple that would grace a kings court but look like hell on a gun. When this happens, try putting the parts into the solution before the heat is up and then watching them constantly. When the purple color starts, increase the heat and get it higher until the steel turns black. Mauser extractors are bad about this and also some case hard-

ened receivers. Only higher heat will blue this stuff. Single barrel shotguns are the worst offenders but they can be made black as Coaly's rear if one takes the time. Needless to say, one should have a separate tank for this more concentrated stuff. It will be necessary to boil some of the water out in order to get the higher heat.

Often a barrel and receiver that are blued at the same time will react thus—The barrel will be a deep black but the receiver will still be as bright as a new dime. When this happens, blue the barrel first, paying no attention to the receiver. Then increase the heat until the receiver takes it too. The increased heat will not hurt the finish on the barrel if it is *first* blued. If rust forms on the barrel due to increased heat, it can be removed with clean steel wool. I often burnish newly blued barrels with steel wool in order to bring out the black color better.

I find that salts bought from a reliable dealer are the best to use. One can get uniform results from the mixtures sold. Of course, one pays a different price, but a spoiled gun costs also. I have used ordinary lye and garden fertilizer (sodium nitrate) with excellent results, but I believe that the occasional use of an alkaline bluing salt will give far better results if one buys the prepared salt instead of rolling one's own.—ALFRED H. GIERTZ, Lake Charles, La.

222 GAS CHECK LOADS

Could you tell me anything about using 4198 powder in handloading the Remington 222 caliber? I have been using 17.7 grains of powder with 50-grain Sierra bullets, but hits are about 8 inches apart on the bull. The factory load groups in a 3-inch bull at 125 yards. I am setting the bullets the same depth as the factory loads.

Would there be less wear on the barrel if I used lead bullets and some other powder? Could I get the same shooting characteristics as the factory load? I want to get as much as I can out of the gun but not underload it to a Hornet caliber, and still save on barrel wear. Is there really an appreciable difference in using jacketed and lead bullets?—RAYMOND L. BAYLOR, Wichita, Kansas.

Answer by Al Barr: We use from 19 to 20 grains of 4198 with 50- and 55-grain bullets in the Remington 222.

When using gas-check loads you will not get the kind of accuracy necessary for varmint shooting if you try to duplicate factory ballistics. A gas-check bullet gives best accuracy at around 1,700 to 1,800 feet per second velocity. With 50- and 55-grain jacketed bullets you can get around 3,100 to 3,200 feet per second in the Remington 222 and obtain decent accuracy.

TROUBLES WITH STEYR-HAHN

I have an opportunity to buy a Steyr automatic pistol rebarreled by the Germans to caliber 9-mm. Luger. W. H. B. Smith, in *Small Arms Of the World*, lists the Steyr as a fine pistol with the sole exception of the barrels, which according to him are sometimes too thin and many specimens have cracked barrels.

I would like to know if this also applies to pistols rebarreled by the Germans for 9-mm. Luger. Could you give me any information on this pistol, regarding accuracy and general performance?—JOHN A. McAVOY, Binghamton, N. Y.

Answer by General Hatcher: An article on page 60 of the Dope Bag, February 1950,

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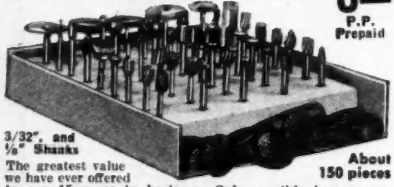

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discussed the possibility of rebarreling the Model 1912 Steyr-Hahn pistol to .38 ACP. This has been recommended by several gunsmiths.

There is one weak point about that Steyr automatic pistol that we don't like and it has caused a lot of trouble when used with either the 9-mm. Luger or in guns rechambered for .38 ACP. That is the fact that the firing pin is held in the breech block by the extractor. With high-powered cartridges, instances have been known where the extractor humped up in the middle and let the firing pin blow out with consequent injury to the shooter's eye.

The accuracy of these guns seems very good indeed, but that weak point is enough to make one doubtful about shooting such a gun with those high-powered cartridges. The latest we have on that comes from Mr. W. F. McNellis, 505 W. Hill Ave., Gallup, New Mexico.

"I have been trying to write you for the last month and a half, but I could not do so until now because I was not able to see well enough.

"I have seen advertisements about converting the Steyr-Hahn 9mm. to .38 Super automatic, also in the February 1950 issue, page 60, you quote the possibility of using this gun with the .38 Super. *Don't, don't ever try it.*

"Last summer I got hold of one that was in excellent shape, chambered it and lapped the barrel so the bore would not be too tight, and proceeded to test fire it from a rest with a string. Right off it commenced to blow the primers, forcing the fragments of primers back into the firing pin guide, freezing the firing pin and making it necessary to remove same and clear the stoppage; the gun was literally tearing itself apart.

"Note the extractor has a twofold purpose—to hold the firing pin and to extract the cartridge. In the extractor hump there is a hole, but in the slide there is none. I have lined up the extractor and the slide and placed a large drill shank in it to insure its staying in.

"Now comes the sad part. On Christmas Day I loaded the Steyr, put up a target and put on a self-designed plastic goggle and face shield and fired five or six cartridges at the target. All bullet holes touched one another at some place in about a 2-inch group so I laid the gun down, took off the mask and looked at the target, and saw a small piece of white paper hanging in the center of the group. I had one more cartridge, so I picked up the gun and carefully aimed at this piece of paper and fired. Well I hit it but that was darn poor consolation—I had not put the mask back on.

"The top of the extractor broke the retaining pin and sheared off, permitting the firing pin to blow back and strike me in the lower part of the right eye, destroying the vision of the eye at that time. I had medical care within fifteen minutes and was hospitalized the next day and kept there for twelve days. They did not dare move me until they could control the pain. I was finally rushed to the Santa Fe Hospital in Los Angeles, California, and I had one of the best surgeons in the United States take over at once.

"They assure me that I have an excellent chance to recover all my sight, but it will be very slow. I'm now able to see a little, but get better every day. I think . . . this would be a good letter to publish in The RIFLEMAN.

LOADS FOR THE 6.5x55 MM.

Sometime ago I picked up a 6.5 mm. Norwegian Krag. Before I could shoot it, dies had to be made and cases formed from .30-'06 cases. The groove diameter of the barrel is .267 inch and the largest bullets I have obtained are the Norma of .264 inch diameter. My question is, what are the maximum loads of No. 4064 with 156-grain bullets in the 6.5 Krag?—J. F. L. CHILDS, Gotha, Florida.

Answer by Al Barr: No one could give you the maximum load for your 6.5x55 mm. rifle or for any other rifle. It would depend upon the condition of the individual weapon and would have to be developed experimentally.

To use your 6.5 mm. Krag effectively there is no need to know the maximum load it will take. In a 6.5x55 mm. free rifle, my finest load was 39 to 40 grains of No. 4895, lot 27277, with the 139-grain boattail bullet made by Norma, which is the only bullet I have used in this caliber. I would expect No. 3031 to be the best powder for use in this particular cartridge. This is similar to No. 4895. I have gone up to 41 grains of 4064 with the 139-grain bullet, but did not get decent performance.

Frankly, I do not think 4350 is a good powder for the 6.5x55 case unless you use very heavy bullets. I haven't had an opportunity to determine its best performance. One shooter did use 46 grains of 4350 with a 150-grain bullet in the 6.5x57 mm. cartridge. That may be a starting point, and is the best I can do for you.

HARD CHROME PLATING

In recent months there has been considerable interest created in hard-chrome plating the inside of rifle and shotgun barrels in an effort to prolong life and, in quite a few cases, to eliminate metal fouling. We had one .25-caliber benchrest gun hard-chrome plated in an effort to determine what effect it would have on accuracy and metal fouling. Before plating, the barrel shot exceptionally well, although it would foul quickly. After the bore was chrome plated by the Marker Machine Co., P.O. Box 426, Charleston, Illinois, there was positively less metal fouling, and accuracy was fully as good as before. To date enough rounds have not been put through the barrel to check on barrel life.

There appears to be some complications in hard-chrome plating the inside of small-caliber rifle barrels. The following information from Harold F. Marker of the Marker firm may be of interest to others.

"We think you may be interested in the following information which we have learned in our hard-chrome plating service.

"We have found that corrosion starts in a gun barrel far more quickly than any one realizes. This is especially true in high-powered rifle barrels, for obvious reasons. The flame of the explosion is like a blow torch and naturally the corrosion starts just ahead of the chamber where the flame is hottest.

"We found this out through the high reflectivity of the hard chrome deposit. As the chrome follows exactly the contour of the metal, the mirror-like finish of the chrome comes out perfectly where it plates on a smooth portion. But the slightest roughness breaks up light and stands out as a dark spot. We have inspected barrels that looked perfect before chroming only to find that after chroming there was some corrosion present

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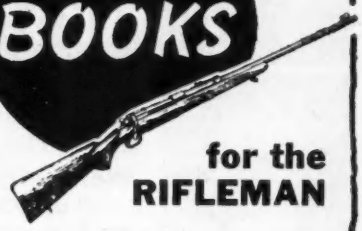

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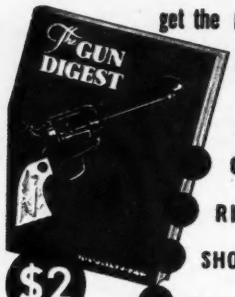

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that showed up. Even in new barrels, the slightest mark left by a reamer or tool is visible. It puts the test to the craftsmanship of the barrelmaker.

"There is another phenomenon connected with this that so far we have been unable to explain. Once in awhile there is a brown stain left in a barrel after chroming. This stain is very hard to get off, especially in rifles where we cannot machine polish because of the lands. We have found in every case where this brown stain has appeared that there is a rough spot under the stain after we finally get the stain off. The chrome is there all right, but why that brown stain appears we do not know. And why it appears only part of the time when roughness is present we are unable to determine.

"We have had this fact brought home to us very hard by a customer who had a barrel of which he was extremely proud. Corrosion had started in his barrel and he refuses to believe the dark spots are not chromed. That is one of the trials of being in business. To date it is the second complaint we have had."

LOADS FOR .45 COLT

Could you give me some reloading data on the .45 Colt New Service target model revolver for varmint shooting at fairly long ranges? Also, for some target work? I would use Ideal bullet No. 454424 or No. 45468. Would a hollow point in either of these be helpful? What powder and charge would be the best? I have a Redding powder scale to use.—VERNON TYNER, Hilton, N. Y.

Answer by Elmer Keith: Naturally I prefer my own design of bullet, Ideal No. 454424 in 250 grains or in 235 grains hollow point. The hollow point bullet with big crater is best. For a heavy long-range load, size bullets to not larger than .001 inch over groove diameter of your particular barrel and load from 18 grains to a maximum of 20 grains of Hercules No. 2400 powder and crimp the case neck in the regular crimp groove of the bullet. Use a good lubricant, and cast bullets of about 1 part tin to 16 parts lead. For a lighter target load, use the same bullet and 5 to 6 grains of Bullseye or 9 to 10 grains of Unique.

RECHAMBERING L.C. SMITH FIELD GRADE

In THE AMERICAN RIFLEMAN (July, page 44) there appeared a statement by Mr. Elmer Keith to the effect that the rechambering of the Field Grade 2¾-inch chamber 12-gauge L. C. Smith for 3-inch Magnum shell was a proper and normal procedure. We communicated with Mr. Keith, explaining at length why our company did not approve of this practice, particularly when it was not done by the factory. Apparently some misunderstanding developed as to the basic reason for our objection to this statement, which resulted in the correction by Mr. Keith (Dope Bag, September, page 68).

To clear up this misunderstanding we wish to point out that contrary to the statements made in the September correction under the heading "Rechambering Short Chambered Guns", the L. C. Smith Field Grade 12-gauge gun has an external barrel contour which is substantially the same as other double-barrel guns currently manufactured in this country. Furthermore, the Field Grade gun has an adequate safety factor over and above the minimum requirements for use with 2¾-inch shells. Our original objection to the

endorsement of the general practice of rechambering such guns for Magnum shells was based on two points:

1) The rechambering process, unless carried out at the factory, which as a matter of policy always proof tests a gun after new barrel work has been done on it, holds the possibility that poor workmanship or failure to proof test may result in a gun which will prove hazardous to the user.

2) The second objection and our chief one is that the Smith Field Grade 12-gauge gun normally weighs between 6½ and 7¼ pounds, depending upon barrel length and the density of the stock wood, and we know beyond any question of doubt that for almost any shooter Magnum loads will prove to be too severe in recoil in such gun weights to make the gun a practical shooting weapon. Furthermore, as is the common practice of most manufacturers in this country, we do not and cannot sustain our guarantee on our shotguns if subsequent to their shipment from the factory they are in any way altered by unauthorized individuals. Contrary to the statement in the Dope Bag, September issue, our factory has rechambered the Field Grade shotgun for 3-inch shells but only under protest, because we know that the user will in all likelihood be extremely dissatisfied with the performance of the gun and that furthermore, because of the weight of the gun, failure of the locking and hinge systems may result.

The L. C. Smith Gun Company, as well as at least two other American gun companies, has provided a 12-gauge gun specifically made for the 3-inch shell, and it is not by accident that these special guns, normally called duck or wildfowl guns, are made in weights ranging from 8¼ to 10 pounds, since even with this substantial increase in weight the recoil produced by the 3-inch load is more severe than that normally encountered with an average weight 2¾-inch gun shooting high-velocity loads.

We trust that this letter will serve to clarify the reasons for our objection to the July Dope Bag statement, and to the subsequent correction as printed in your September issue.—T. R. Robinson, Jr., Director of Research & Development.

ZINC AND KIRKSITE LOADS

I have an Ackley Improved '06 and a .300 Magnum, plus zinc bullets of 95 and 115 grain, sized to .311 inch. I would like to use No. 4895 powder if practical. Can you suggest loads?—Larry Sulzer, Minturn, Colo.

Answer by Al Barr: In the .300 H&H Magnum I tested one load of 68 grains of 3031 powder with a 100-grain Kirksite bullet and obtained 4000 feet per second, but at a pressure figure of 66,000 pounds. The load should be reduced to 64 or 65 grains of 3031 or 4895 powder. Around that level, you should find a practical load.

In .30-'06 caliber with 100-grain Kirksite bullets, I used 58 grains of 4320 for 3400 feet per second velocity. With a 120-grain zinc alloy bullet, I used 45 grains of 4895 for 2823 feet per second. These loads would be increased about three grains in the Improved '06 for equivalent results.

Kirksite, as you know, is a zinc-base alloy containing small quantities of aluminum and copper which has been used for die-forming small lightweight metal parts in industry. Information about loads with Kirksite bullets applies also to loads with zinc bullets.

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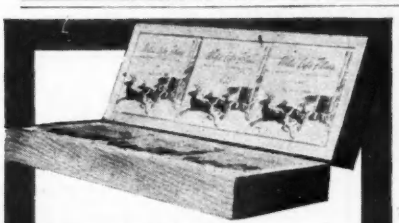

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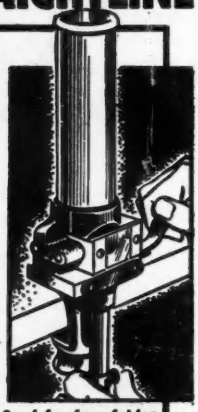

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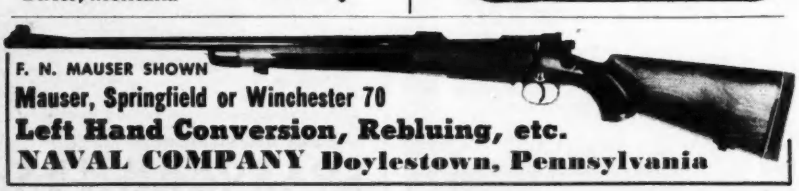

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Romac Company, Inc., Harris, N. Y., recently sent in one of their disappearing gun slings. It may be unhooked from a loop or swivel attached in the fore-end of a shotgun or rifle and allowed to roll up over a spring operated device until it is completely concealed within the buttstock. A relatively narrow ⅝-inch sling is used, but it is convenient for carrying the ordinary hunting rifle.

BOOK REVIEWS

GUN DIGEST

Edited by John T. Amber

The fifth edition (1951) of the *Gun Digest* is the largest and one of the most complete of the series published to date.

"Rifles and Shotguns of American Make" affords an excellent introduction to this edition, giving a resume of the types of actions made in this country and the rifles and shotguns available at the present time. It is followed by other articles dealing with the selection of rifles for various types of hunting and two articles on the controversial subject of "High Velocity versus Heavy Bullets." There are also sections containing descriptions and pictures of all current American high powered rifles, .22-caliber rifles, shotguns, pistols and revolvers, ammunition, scopes, mounts and accessories.

For those who are interested in history, this edition offers an excerpt from the forthcoming book *The Story of Winchester* by Dr. Harold F. Williamson and a brief history of the National Rifle Association with six facsimile pages of the first eight-page edition of the "Rifle", forerunner of THE AMERICAN RIFLEMAN. Also, there are two articles, with excellent drawings and photographs, on Pennsylvania and single-shot rifles, as well as extracts from the book on single action Colts by John Parsons. The sections on military small arms and foreign ammunition contain drawings and dimensional data.

Throughout the edition, articles will be found of a general and special interest to all.

(Continued on page 58)

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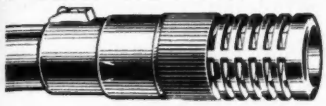

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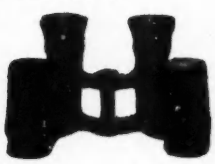

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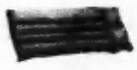

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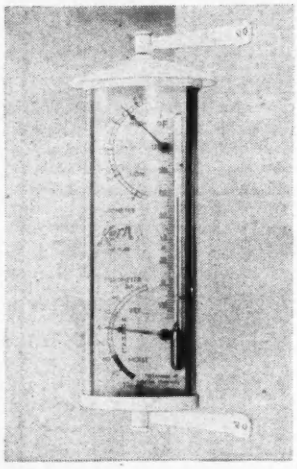

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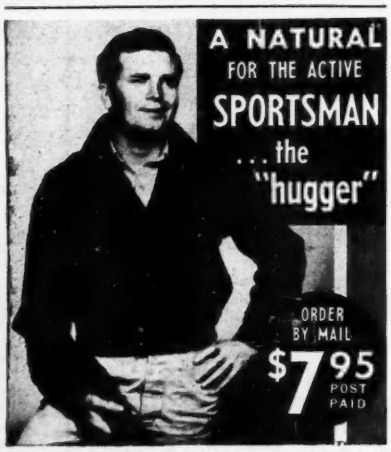


Smart, heavy Buffalo Plaid 100% wool shirt jacket. Ideal for cool crisp weather. You'll like the snug smooth fitting "hugger" feeling you get from the two inch rugged elastic waistband. Comes in Oyster White and Black, Fire Red and Black, Kelly Green and Black.

SIZES: Small - 14, 14½. Medium - 15, 15½. Large - 16, 16½. Extra L. - 17, 17½. Guaranteed for quality and workmanship or your MONEY BACK!

SEND NO MONEY, pay postman $7.95 plus postage on arrival. IF YOU ENCLOSE PAYMENT WITH ORDER—WE PAY POSTAGE!

CHARLES SPORTSWEAR, Inc., Dept. CS-1
25 Hopkins Place, Baltimore 1, Md.

Send me.....Hugger Jackets at $7.95 Ea. Size.....
Color Choice (1)..... (2).....
NAME .....
ADDRESS.....
CITY.....ZONE.....STATE.....
(dealer inquiries invited)

(Continued from page 56)

Among the subjects covered are military conversions, skeet and trap shooting, the shotgun choke, an extract from the book *Double Action Shooting* by Bob Nichols, chronographs, collecting Maynard cartridges, bullet-making, handloading, and others too numerous to mention. Among the useful features of this Digest are a list of the various powders in use today and their characteristics, a list of currently available ammunitions with prices, a ballistic table of current rimfire and center-fire rifle and pistol cartridges, a foreign cartridge price list, specifications of American scopes and mounts, a review of various front and rear sights, and a valuable manufacturers' directory.

The 1951 edition of the *Gun Digest* will be a much desired addition to the library of any gun enthusiast.—H. C. STITH.

(Published by the Gun Digest Company, Chicago 6, Illinois. 224 pages, paper bound. Price $2.00.)

THE PEACEMAKER AND ITS RIVALS

By John E. Parsons

This book will appeal primarily to the collector and the historian who wants to know more about the early cartridge revolvers of military caliber. It opens with some interesting remarks on the progenitors of the single-action Army Colt revolver and follows with the evolution of the Peacemaker, giving much authentic history on the development of the famous weapon and the Army tests to which it was submitted. Quite a bit of attention is given to the various Army tests of rival weapons during the years immediately following the adoption of the Peacemaker. Guns which are described include the famous S&W Russian and Schofield Models, the Remington, Forehand & Wadsworth, Merwin Hulbert, and others. The author has searched a multitude of old records with apparent throughness, and has included many direct quotations from Army reports and Board proceedings together with copious reference notes to source material. A feature of interest is the inclusion of a number of old catalog pages and contemporary advertisements, which are the very best possible material for resolving certain disputed points. For example, those who still persist in applying the name "Frontier" to all single-action Colts should note the material from the Colt catalog of 1888, as given on page 90, in which the maker first describes the .45 single-action Army, then goes on to describe the "Frontier" Models as being the same, except that they are designed to "use the same ammunition as a magazine rifle, thus avoiding the necessity of carrying two kinds of ammunition." In this catalog, the "Frontiers" were listed as chambered for the .32, .38, and .44 (.32-20, .38-40, and .44-40).

This work is notable for painstaking inclusion of all available records of serial numbers with corresponding dates, and contains the best record of the kind that has ever been printed. It also contains a picture and description of the little known Winchester single-action .45 that was made in 1883 but never put into production.

A careful study of this book shows that it is thoroughly authentic.—J. S. HATCHER.

(140 pages, appendix, bibliography and index. Published by William Morrow & Company, New York. Price, $4.00. Available through NRA Book Service.)

GUN BARGAINS!!

.303 BRITISH ENFIELD SPORTER

$49.50 INCLUDING ALL CHARGES

Hi-Powered precision 6 shot bolt action .303 British ENFIELD repeater CONVERTED by expert gunsmiths into a Streamlined SPORTER MODEL. Walnut stock. 26" Barrel. Blade foresight and aperture rear sights. Noted for its smooth action and ballistic properties. Makes ideal hunting rifle. Weighs only 8½ lbs. A chance to get a Hi-Powered proof tested SPORTER at a fraction of what they will cost this fall. 30 Enfield Ammunition made by Remington. 215 Grain Express soft point. Shells permit reloading and used innumerable times.

Other Firearms

.30-06 British Enfield, As-Issued. Very good....$44.95
.30-06 Springfield, as issued except stock cut to Sporter, very good $2.95
.30-06 Springfield, same as above, Excellent $69.95

8MM GERMAN MAUSER $32.95

Famous Hard hitting German military Mausers. Model '98. Condition: "Very Good" (NRA Standards). At $32.95 they won't last long. The 8 mm model that has been adopted by several countries as their official army rifle. 8mm Mauser Ammunition made by Remington 170 grain, soft point, Hi Speed. "When big game is wanted." 49½ inches overall, Barrel 23½ inches. Gunsmiths say Mauser is finest Bolt action made. Weighs 9 lbs. 5 shot Bolt action!

$39.50 ITHACA REMINGTON 45 ARMY AUTO

These are the famous U.S. Army 45 Model A-1. Combines tremendous power with amazing accuracy. Excellent condition, will give new gun performance. Guaranteed! While 50 last. No C.O.D.'s please. F.O.B. Chicago. .45 Remington Automatic Ammunition. Target Master. Wad cutter. Oil proof Kleanbore.

CARBINE STYLE .22 RIFLE $10.95 BRAND NEW

Styled like the famous U. S. Army carbine. A Bolt Action gun with a blade front sight, adjustable open rear sight. SAFE. Lightweight, well balanced. Shoots accurately. One screw take-down. 35" overall, weight only 4 lbs. BRAND NEW. Uses shorts, longs or long rifle shells.

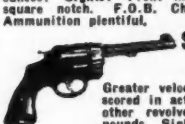
.455 WEBLEY $34.50

Made by WEBLEY of England supplier to the British Government, War Dept., Air Force, Navy and major Police Depts., Excellent condition. Recently proof tested. W. H. B. Smith in the NRA's book "Small Arms Of The World" states "One of the finest heavy duty hand weapons ever made, permits opening and extracting cartridges with one movement of the hand." These revolvers TRIPLE lock cylinder during firing. Truly a fine value at $34.50 FOB Chicago. No COD's please. Ammunition plentiful. Use any .450 or .455 Revolver ammunition suitable for Colt or S & W Revolver (not automatic). Or we can supply Smokeless, Non-Corrosive 265 Grain Ball of 50 for $5.35.

$45.00 COLT .38 ARMY REVOLVER

World famous target revolver the COLT. Condition: "As New." Muzzle velocity 600 feet per second. 190 lbs. muzzle striking energy. Weight 31 ounces! Sights: Front fixed. Rear, square notch. F.O.B. Chicago. No C.O.D.'s please. Ammunition plentiful.

SMITH & WESSON $45 .45 ARMY REVOLVER



Greater velocity, accuracy and penetration scored in actual Government test over any other revolver. Striking energy 340 ft. pounds. Sights: service type front, square notch rear. No C.O.D.'s please. F.O.B. Chicago. Ammunition plentiful.

Unconditionally Guaranteed

If not satisfied, return within 3 days for full refund. All above prices include tax! Immediate delivery. Rifle cash orders shipped prepaid. C.O.D.'s include $5.00 deposit. In ordering handguns you must state in your order you are not a minor, alien, fugitive from justice or been convicted of a crime of violence.

UNITED ARMS CO., 9043 S. Western Ave. Dept. FA-740, Chicago 20

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—**minimum charge $3.00. Advertisements** *must be accompanied by remittance*, addressed to "The Arms Chest," American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: Nov. 1st for the Dec. issue. Ads received after Nov. 1st and not later than Dec. 1st will be inserted in the Jan. issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt and certain delivery of all mail or telegraph replies.

NOTE: Postal authorities no longer are required to provide directory service for even first-class mail which does not carry a *complete* local address!

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith (W. H. counts as one word); H. B., meaning heavy barrel, etc.; W. H. and H. B. are one word) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

8. All Articles to Be Properly Described: To avoid misunderstandings the condition of every advertised article should be described in accordance with the following definitions, NEW—not previously sold at retail, in same condition as current factory production; NEW—DISCONTINUED—same as NEW, but discontinued model. The following definitions will apply to all SECOND-HAND articles: PERFECT—in new condition, in every respect; EXCELLENT—new condition, used but little, no noticeable marring of wood or metal, bluing perfect (except at muzzle or sharp edges); VERY GOOD—in perfect working condition, no appreciable wear on working surfaces, no corrosion or pitting, only minor surface dents or scratches; GOOD—in safe working condition, minor wear on working surfaces, no broken parts, no corrosion or pitting that will interfere with proper functioning; FAIR—in safe working condition but well worn, perhaps requiring replacement of minor parts or adjustments which should be indicated in advertisement, no rust but may have corrosion pits which do not render article unsafe or inoperable; POOR—badly worn, perhaps requiring major adjustments or repairs to place in operating condition.

9. WARNING TO PURCHASERS: The publishers *will accept no responsibility* for *any* unsatisfactory transaction involving articles which have not been described in accordance with the foregoing NRA standards. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—*before* any transactions are consummated. Purchasers should also request shipment by express C.O.D., *with examination privileges;* the purchaser may (and should) then examine the shipment in his local express office—if unsatisfactory the article will then be returned by the express company to the shipper, at the latter's expense.

10(a). The National Firearms Act forbids the sale of the following: (*a.*) **Full automatic machine guns.** (*b.*) **Rifles and shotguns with barrels** less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

(b). In addition, the NRA has adopted a policy of not accepting advertisements covering small pocket handguns, or any handguns having barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

11. Fair Trade Laws: Advertising will not be accepted for articles to be sold in violation of Fair Trade laws, after the manufacturer has advised the NRA that such violation exists.

FOR SALE

BRAND NEW REMINGTON RECEIVERS and trigger plates, beautifully blued. Price $15.00. Geo. B. Carter Co., 102 West Bank St., Petersburg, Va.

GARAND, CARBINE, ENFIELD, .03 PARTS. Also some Foreign parts. In single or quantity lots. No lists at present. Greeley, 448 Pompton Ave., Cedar Grove, N. J.

FACTORY REJECTS — OUTSTANDING value! Same genuine imported briar as our regular $10.00 pipes. Have only surface flaws not affecting superb smoking qualities. 2 for $1.00. Satisfaction guaranteed. Gaylords, Dept. 204, Brockton 64, Mass.

20 FINE SHOTGUNS AND RIFLES FROM my collection. German Combinations, Schuetzens, Sporters and others. Stamped envelope for list. Henry J. Dwillard, 1511 Sunnyside, Kalamazoo, Michigan.

GENUINE BUCKSKIN GLOVES. SEND money order for $2.50. We pay postage. State size. Whitewater Glove Co., Whitewater, Wisconsin.

CASWELL TARGET CARRIERS FOR INdoor rifle and pistol ranges. Priced from $30.55 to $33.80. Write Caswell Target Carriers, Anoka, Minnesota.

OREGON MAPLE BURL PISTOL-GRIP blanks. Matched pair 3½" x 5½" x 1¼" $1.50, postpaid. Beaumont's, Coos Bay, Oregon.

ARGUS PRISMATIC 20 POWER OBSERVAtion Telescopes, Surplus Stock, excellent condition with coated optics $59.50. New 1950 Catalog of Firearms, Gov't. Surplus & Sporting Goods. Send coin 25¢. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

ANTIQUE FIREARMS, ACCESSORIES AND parts. All illustrated lists for a year, $1.00. Weisz, 100 South Uhle St., Arlington, Virginia.

SPORTSMEN — SAVE $20.00. 17 JEWEL, shockpruf, waterpruf standard Swiss movement in all stainless steel case $27.95 tax incl. Also Springfield .22 cal. MI bbl. and action perfect, stock excellent. Lyman 48A and Fecker 4½ scope, with sheepskin case. $100.00. Duke's Jeweler, Huron, South Dakota.

WINCHESTER M-21-20 GA., SKEET GRADE, 26" bbls., 1&2, SST, AE, standard stock, recoil pad, excellent $220.00. Browning Sweet Sixteen, 2-9/16", 26" bbl., Poly Choke, standard stock, excellent $100.00. S. P. Mosher, 112 Commercial St., Dowagiac, Michigan.

OWNERS OF REMINGTON MODELS 721 and 722. Your fine rifle deserves a milled trigger guard and hinged magazine cover. Sporting Mauser type magazine release lever inside trigger guard. Install-it-yourself. New production, deluxe. Complete, $9.85. Write for full description. Moye W. Stephens Co., 246 South Towne Ave., Pomona, California.

SMITH 12 SPECIAL FULL, SINGLE TRAP, 34, Ventilated, extra barrel, excellent. 12 Parker G. H. Double, 34, Beavertail, V.G. Make offer. T. J. Royall, 1434 Morningside, Charlotte, N. C.

OUR LIST OF MODERN ARMS WILL BE sent on receipt of three cent stamp. Kimball Arms Company, Woburn, Mass.

ATTENTION TARGET AND VARMINT Shooters. Precision Custom Loads. 30 years experience. L. Shelton, Iowa Park, Texas.

FORSYTH, MAGAZINE LOCK PISTOL, bbl. 4" marked "Forsyth & Co. Patent London", OA—6½", concealed trigger, round butt, silver engraved, unscrews containing original loading rod, marked No. 1 seven places, cal. 50. $425.00. P. S. Jones, 2343 Oakmont, Santa Ana, Calif.

NEW: M721 .300 MAGNUMS $89.95. M721, .270, .30-06, $79.95. M48 Rems. plain or ventilated rib. M70 Super-grades .300 magnum, .30-06 $162.50. M722, 257R, Hi-comb., Buehler K6 $138.45. Marlin 35 cal. carbines $69.95. Rifles $82.55. M81, 30-35 $129.95. M141, .30-35 $104.95. Jeff Trader, Pocomoke City, Maryland.

REVOLVERS, SMITH & WESSON HAMMERless, new departure model, cal. 38, blue steel, 3¼" and 4" barrel, good condition, price $35.00. New 1950 Catalog of Firearms, Gov't. Surplus & Sporting Goods. Send coin 25¢. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

REVOLVERS, .38 SPECIAL SMITH & WESson, Victory Model, 4" barrels, good condition $32.50. New 1950 catalog of Firearms, Gov't Surplus & Sporting Goods. Send coin 25¢. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

NEW CATALOG #28 DESCRIBING OVER 5000 bargains 40¢. Brand new 45-70 Springfield $42.50, slightly used $32.50. 45-70 ammunition $2.50 box. Springfield 1863, never fired $44.50. Springfield service rifle, excellent $68.50. Krag Sporter, excellent $68.50. .303 Ross Sporter, excellent $54.50. 12 ga. Magnum Ansley Fox, excellent $140.00. Colt Frontiers, .32-20, .38-40, 45x4¾", very good $88.50. 45x5½", excellent $98.50. 45 ACP, excellent $98.50. 45x7½", excellent $120.00. 44-40x4¾", excellent $98.50. 44-40x7½", excellent $120.00. 32-20x6½", excellent $110.00. 357x7½" Magnum, excellent $150.00. 357x5½" Magnum, excellent $135.00. Superb pearl or ivory grips SA $18.50. Largest selection all calibers, Frontiers, Bisley's, Automatics, Kentucky Rifles, binoculars. John Smith, Rambler Ave., Runnemede, N. J.

WINCHESTER M/12 SKEET, 12, 20, 28 GA. New $114.95. Jim Craton's, Davenport, Iowa.

GENUINE SHEEPSKIN LINED LEATHER gun cases for rifles, and shotguns $5.50 prepaid, give overall length of gun. Rudolph's, Atchison, Kansas.

ITHACA SKEET PUMP, 20 GAUGE, VENT., beavertail, excellent, $115.00. Winchester M70, .30-06, Lyman, Griffin Howe mount, excellent, $110.00. Alfred Judge, Oak Lawn, R. I.

More than pleased!

"In less than three weeks my "Arms Chest" ad already has brought over 90 letters, phone calls and telegrams. In addition, several people have driven at least 200 miles to see the guns I am offering. You will be receiving more ads from me soon!"—*Calif.*

With shortages already developing in new guns and shooting supplies there will be an increasing demand for "used" equipment.

The "Arms Chest" provides a quick-acting and inexpensive way to reach over 270,000 of the country's most active gun buyers—and sellers!

☆ ☆ ☆

***Your* ad copy for the December issue must reach us not later than November 1st. See above for full instructions.**

WHAM-O SPORTSMAN $1.00

HITS LIKE A .22 RIFLE—KILLS RABBITS, SQUIRRELS. Powerful, silent, accurate. For hunting, target, scouting pests.

Dealers Write

HUNTING SLINGSHOT

Heavy ash hardwood stock. 40 steel balls, extra rubber straps. GUARANTEED. Send $1.00 today to Wham-O Mfg. Co., Box 8R, South Pasadena, Calif.

* The professional model of Nat'l Slingshot Assn.

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ANIMALS, FISH, PETS

Be a Taxidermist. Save your hunting TROPHIES. Have a fine home-museum. Hunters, save and MOUNT your beautiful DUCKS, QUAIL, DEER, TAN skins and FURS. Great Fun. Spare-time PROFITS.

FREE BOOK Tells ALL about it. 100 fine wild-game pictures. 48 pages. Send TODAY, don't delay. Get this WONDERFUL FREE BOOK, MEN AND BOYS. Learn Taxidermy. Double your hunting pleasure. Rush letter or POSTAL today. STATE AGE.

N.W. SCHOOL OF TAXIDERMY, Dept. 2010 Omaha, Neb.

INSTALL YOUR OWN LOW-COST TELEPHONE SYSTEMS

SAVE TIME & STEPS WITH ARMY FIELD TELEPHONES & WIRE

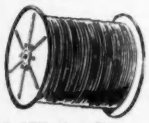
AS LOW AS $10.50 PER MILE

Ring and Talk Any Distance up to 17 Miles!

W110B ARMY FIELD WIRE

2-conductor, twisted pair, weatherproof.

Hundreds of uses around ranches, industrial projects, anywhere. You can install Field Telephones and have communication in a matter of minutes. They'll save you time and work which means money. Walking or driving short distances to talk is unnecessary. Just string this low-cost, 2-conductor, weatherproof wire, attach to phone terminals and you just ring and talk. Simple as that. You can use from 2 to 8 phones—any number you may require—on the same line for a complete inter-com system. **Performance guaranteed to equal present day commercial telephones.** Powered by flashlight cells. No maintenance required.



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ACT NOW **New Low Prices** **ORDER TODAY**

New, unused, excellent condition. Per Mile (wt. 160 lbs.) ½ Mile (wt. 80 lbs.) ..... $13.50 / 7.00

New, unused, good serviceable condition. Per Mile ..... ½ Mile ..... $10.50 / 5.50

All Prices FOB Sacramento. No C.O.D. (Calif. residents add 3% for sales tax). Small orders sent postage collect, heavy orders freight. Send Check or Money Order.

EE8 FIELD TELEPHONES

Factory - Reconditioned —NEW each $15.00
Per pair $29.50
Used, excellent condition each $10.00; per pair $19.50

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THAT WONDERFUL WINCHESTER GUN OIL

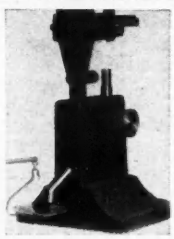
- Prevents Rust
- Lubricates
- Stays Put
- Cleans

ONLY 25¢

ANOTHER OLIN PRODUCT

Winchester Repeating Arms Company • Division of Olin Industries, Inc. • New Haven 4, Connecticut

POWDER DISPENSER



This tool is designed to be used with any powder measure using a ½" or 9/16" drop tube (specify which). To use, adjust measure to slightly under the required charge. Throw charge with powder measure and add required weight by turning knurled wheel on side of dispenser. This adds powder one kernel at a time until exact charge is in pan. This tool will deliver 4 to 5 perfectly weighed charges in one minute. Every shooter can have accurately weighed powder charges speedily and easily with this new powder dispenser.

Price $15.00 F.O.B. La Grande

Patent Applied for

OUTSIDE NECK REAMER

The only way to get the bullet & bore in perfect alignment, as factory brass is bound to put the bullet off-center, due to uneven neck thickness. This tool is indispensable to the exacting and demanding shooter. For best results send inside diameter of sized and expanded case or send case itself. Made in all calibers. A necessity for over-thick necks due to necking down larger caliber cases.

Price $5.75 **Check or M. O.**

BROWN & BALL

1206 "B" Avenue • La Grande, Oregon

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RELOADERS & SHOOTERS

Speer; Sisk; Sierra; ABC; Hornady; Ackley; M & G; and other bullets. Lyman; Pacific; Belding & Mull; Saeco; Hollywood; Smiley; L. E. Wilson; Redding; CH Dies and other loading tools. DuPont & Hercules Powders. Lyman & Unertl Hunting & Target scopes. Ohlemeyer Leather Lens Covers. Buehler Mounts, safeties, etc. Lyman Metallic Sights, Williams Foolproof sights, mounts, swivels, etc. Dayton-Traister Triggers & mechanisms. Cain's Quick-Detachable Swivels. Pachmayr Recoil Pads and products.

Write for complete list.

JIM WILKINSON

RIFLE RANCH PRESCOTT, ARIZONA

Dealer Inquiries invited

FIREARMS ENTHUSIASTS: MINIATURE Colt Frontier working model. Two views actual size. Specify left, right, or both. 25¢ each. K. G. Sonntag, 1830 Blanco Road, San Antonio, Texas.

NIGHTVISION TUBE $14.95 WITH INstructions. Snooperscope Book $1.50. Infra-red Filters 15¢. Catalogue—Data 10¢. Precise, 942 Kings Highway, Brooklyn 23, N. Y.

1917 ENFIELD BARREL AND ACTION, Dayton Traister trigger, cocks on opening, Johnson brake, Peel rear, Redfield front, magazine reduced to five shots, total conversion work and beautiful blue job by Poyer, $65.00. Universal 6x30 binoculars, good, $40.00. Albert Zehner, Selman, Oklahoma.

NEW ILLUSTRATED LIST — SHOOTERS' Supplies. Send 3¢ stamp. Wahl Arms Company, AR-10, Bogota, N. J.

MODEL 95 WINCHESTER 35 CAL., VERY good $65.00, or best offer. Clifford Jones, Smithsburg, Md.

RUBBER RECOIL BOOTS TO FIT ANY rifle or shotgun. Value $2.50 each, Sale 3 for $1.00. Carryall, new, Gov't. Surplus, large canvas roll Carryall with two web straps and handle for Sportsmen, Bill Players, Campers and Travelers. Value $12.50, Special $1.95. Jacobs Automatic Safety for Remington Automatic and Winchester Pump Shotguns, Model 12, new. Value $7.95, Special $4.50. New 1950 Catalog of Firearms, Gov't. Surplus & Sporting Goods. Send coin 25¢. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

COLLECTORS PISTOLS. STAMP FOR NEW big list "M." J. S. White, 2207 Lincolnwood, Highland Park, Illinois.

REMINGTON 241 LR, NEW, $57.00. WINchester M24x12x28, M/F, extras, perfect, $63.00. Gunrack, Fairfield, Maine.

WINCHESTER M/12 TRAP, 30" FC, V.R., new, $190.00. Jim Craton's, Davenport, Iowa.

WE SELL 1000'S OF GUNS YEARLY. NATurally we can sell for less. Rush 25¢ for bargain packed lists sent throughout year. Double your money back if these aren't real bargains. (New-Used, Modern, Antique) Trades? Sure. Numrich Arms Company, Dept. H, Mamaroneck, N. Y.

NAME SHIELD FOR GUN STOCK, SOLID nickel silver, 1¼"x1⅜". Name, address handtooled. $2.95. Catalog. Franklin Craftsmen, Wallingford, Pa.

99 EG SAVAGE, .250/3000, $96.45. MODEL 141 Rem. 35 Gamemaster $104.95. Model 121 Rem. Fieldmaster, $49.95. Model 94 Winchester 25/35, $62.45. Model 63 Automatic, $63.50. Model 61 Pump, $49.95. Lyman Alaskan 2½ power hunting scope, $57.50. Model 11-48 Rem. 16 ga. Automatic 26" Imp. Cyl. or 12 ga. 28" Mod., $99.25. L. C. Smith 12 ga. mod. and choke, $87.50. Colt 22 Automatic Sport, $60.00. Target $70.00. K-22, $65.00. All Brand new. Arthur Forrer, Griffin, Georgia.

CUSTOM RIFLEMAKER

Custom Built Rifles to your specifications, custom stocks, rebarreling, special parts made, etc. 40 years experience, 22 years in present location.

Write your wants for quotations.

ROBERT U. MILHOAN & SON

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MGS **2D Silver Streak BULLETS**

All weights—.228, .257, 6.5mm, .270, .308, .311, 8mm, .357, .359, 9mm, and .375 calibers. Immediate Delivery! All bullets uniform in weight and exact in diameters. New M.G.S. plating process eliminates metal fouling. Free 1950 catalogue and loading chart. Special Bullets made. Discount to Dealers. Please write for free catalog, loading chart and sample bullet.

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GUARANTEED FOR LIFE OF SCOPE

TOMMY • DOT

All Weaver and Target Scopes $5.00 Two-Day Service

All American Hunting Scopes $7.50 Write for Folder

ROBERT S. THOMAS

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Supply Headquarters FOR COLLECTORS OR SHOOTERS OF OLD-TIME GUNS & PISTOLS. SEND FOR FREE ACCESSORIES LIST...

JAMES E. SERVEN · Santa Ana, Calif.

SHOOTS ANYWHERE
POWERED WITH SAFE, FREE AIR

SHERIDAN "SILVER STREAK"
Self-Contained Pneumatic Rifle

Shoot with "half the cost, twice the fun" with a husky repeater. .20 cal. Sheridan that really packs a "wallop." Ideal for small game. Uses free air, low-cost ammunition. It's super-safe, has exclusive automatic safety. Rust-proof barrel. Silent, controlled power, amazing accuracy. Use it anywhere.

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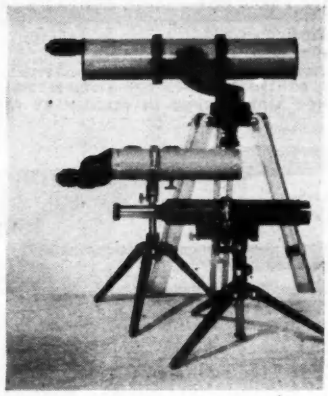

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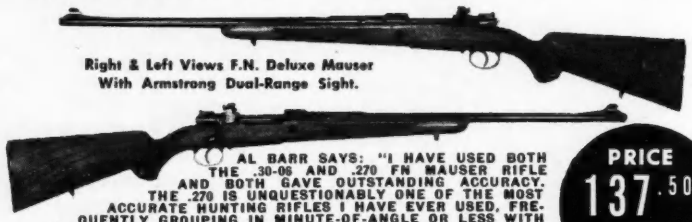

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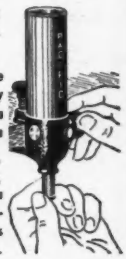

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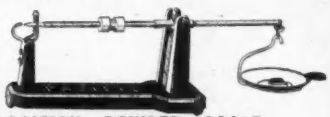

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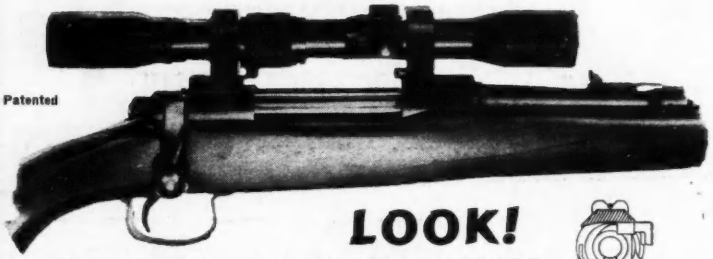

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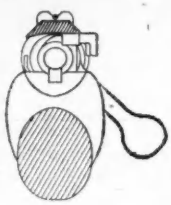

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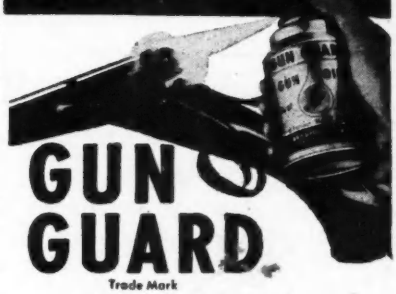

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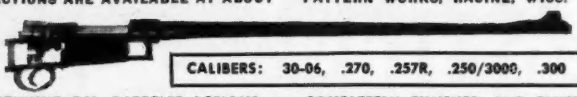

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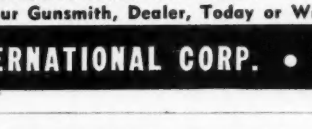

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PATENTS Without obligation, write for information on steps to take to secure a Patent.

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Guaranteed for the life of your gun.

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TAILORED PATTERNS

Herter's Vari-Choke gives you nine degrees of choke at your fingertips, which means that you can tailor your patterns for any type of hunting which you might be doing from quail to geese. We unconditionally guarantee that our choke and eliminator will give you the most uniform patterns under any conditions. Through elimination of gas distortion, there is an increase of velocity. Our choke will give you longer range with consistent patterns. Our choke slots, which expand and contract as the selective collar is turned, are improved by honing so that they will not lead up under excessive use. Slots which are merely cut into the metal have burred edges which chip shot to promote flyer patterns; lead up to interfere with regulation by collar adjustment.

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REASONABLY PRICED

No matter what price you may pay for a selective-type choke or eliminator, you cannot buy one that will equal the performance of ours nor one that features better workmanship and materials. Our price is based on what we believe is fair both to ourselves and our customers. The combination Vari-Choke and Eliminator is a gracefully proportioned unit which will not destroy the lines of your gun as the blockier types will. Lightweight, although made of finest barrel steel, (not aluminum) this unit will give your shotgun the balance and "feel" expert gunners prefer. Improved sights are provided with all Vari-Chokes.

FOR 12, 16 AND 20 GAUGE SHOTGUNS

Standard Vari-Choke	Vari-Choke with Eliminator, Not Installed
Not Installed $6.30	$9.75
Installed $9.50	Installed $13.00

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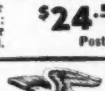
(NRA Staff Writer)



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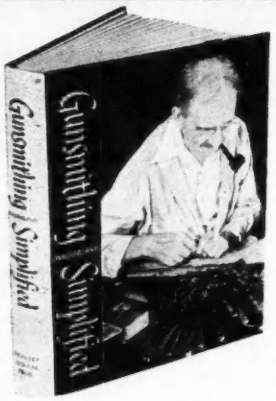

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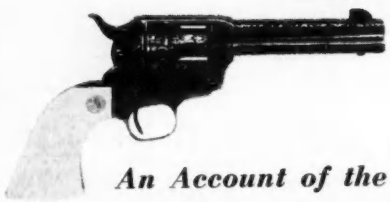

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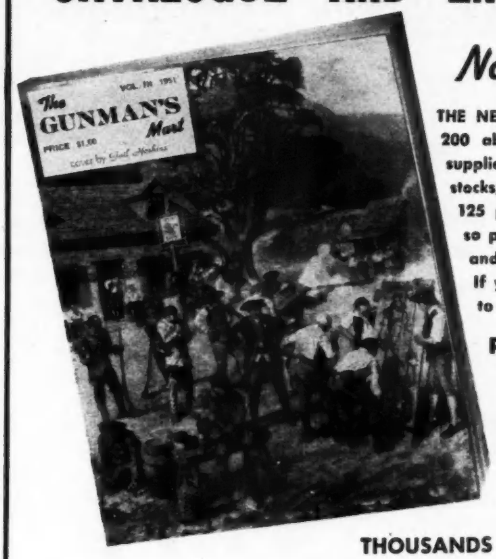

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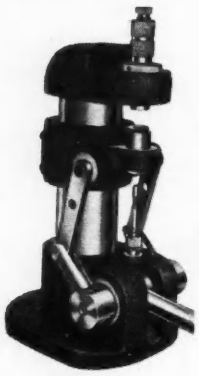

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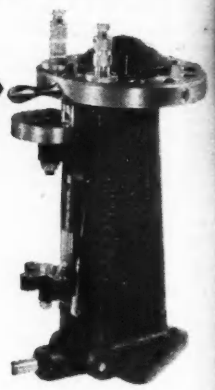

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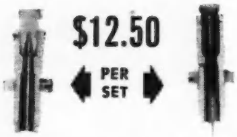

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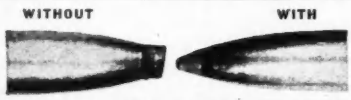

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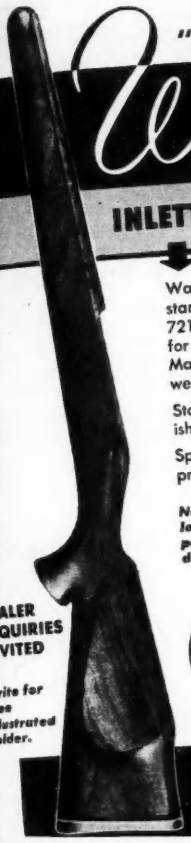

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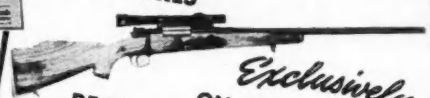

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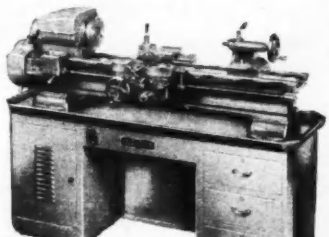

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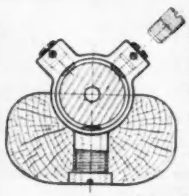

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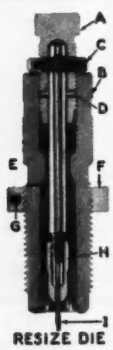

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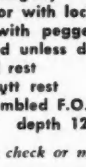

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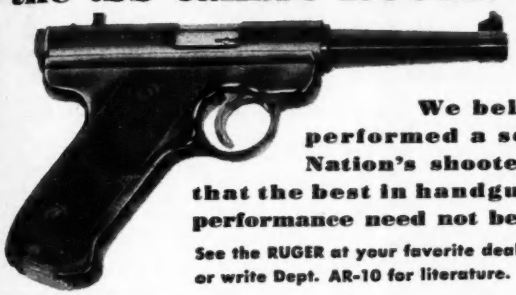

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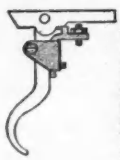

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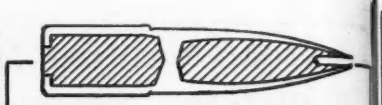

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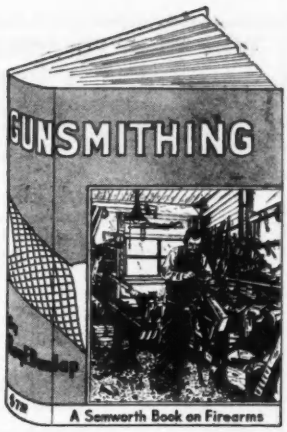

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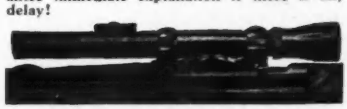

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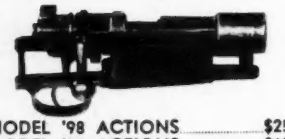

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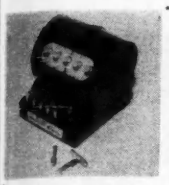

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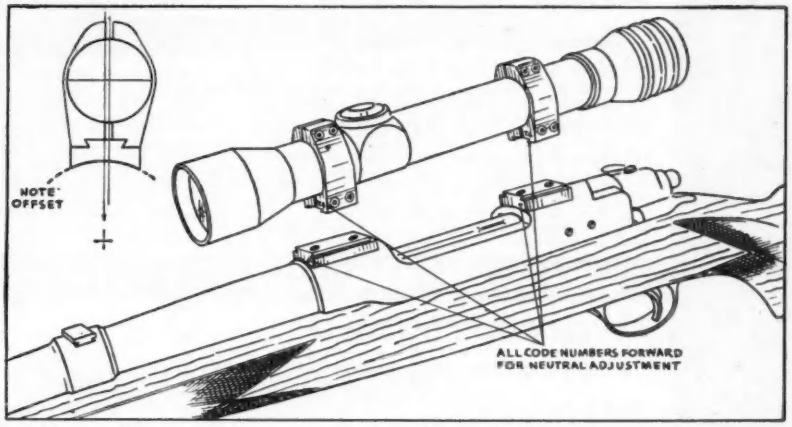

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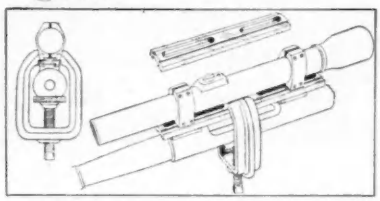

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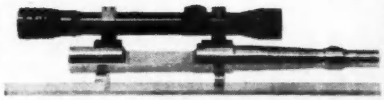

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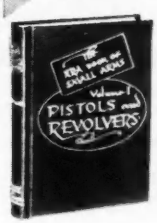

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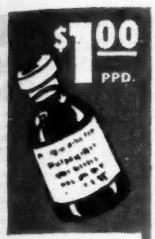

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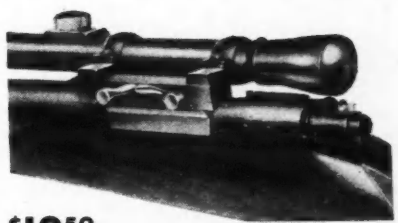

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8x57 Mauser, 124, 159 & 196 gr. softpoint	3.30
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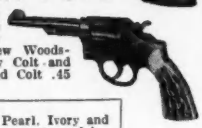

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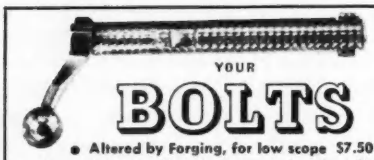

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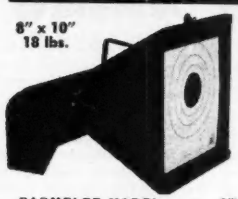

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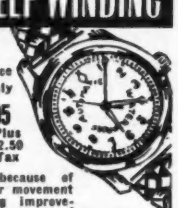

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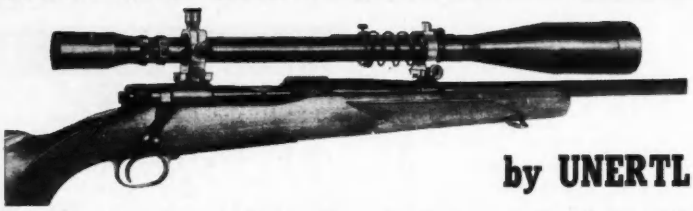

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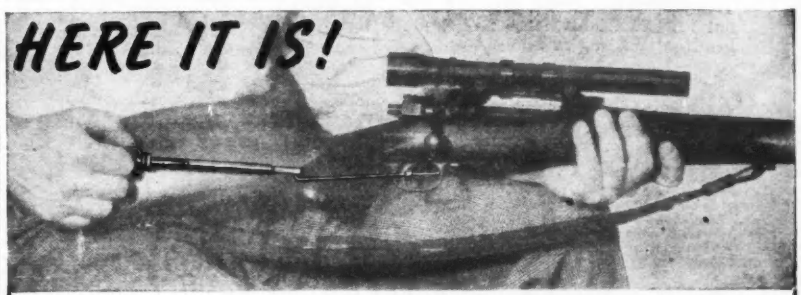

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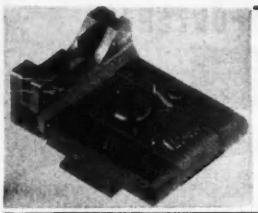

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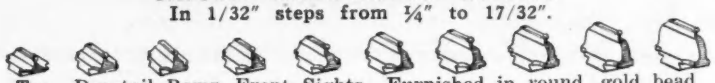

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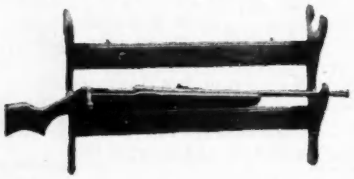

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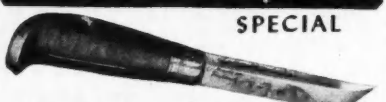

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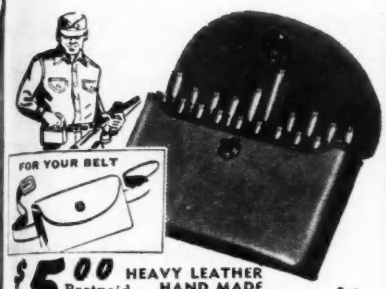

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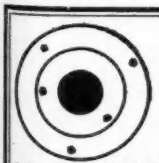

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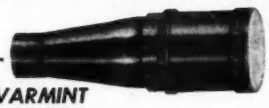

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FULL LENGTH SHELL RESIZING DIES 6.60
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INSIDE NECK REAMERS. .22, .220, 25, 270, 7 mm, 30 and 8 mm 5.50

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We will not ship shot COD. On small shipments by parcel post add one pound for packing and include sufficient funds to cover postage and insurance.
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ROTARY TYPE WAD CUTTER. For use in drill press. Self ejecting. 12 gauge only $7.50
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257 cal. 87 gr. spire point SP	3.75
257 cal. 87 gr. full metal cased spire pt.	3.75
257 cal. 100 gr. spire point SP	4.00
270 cal. 100 gr., $4.25 130 gr.	4.50
30 cal. 110 gr. spire SP HV	4.25
30 cal. 150 gr. spire SP HV	4.50
30 cal. 150 gr. Rd. nose SP cannelured	4.50
30 cal. 180 gr. spire or Rd. nose SP	4.75
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30 cal. 120 gr. $5.75. 150 gr. $6.00. 180 gr.	6.75
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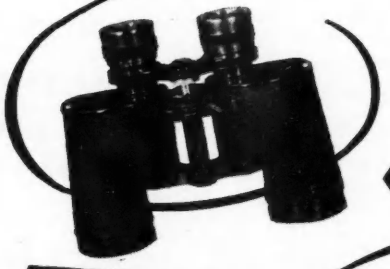

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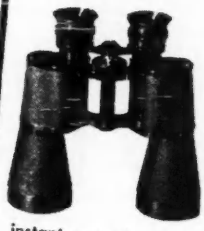

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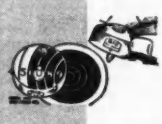

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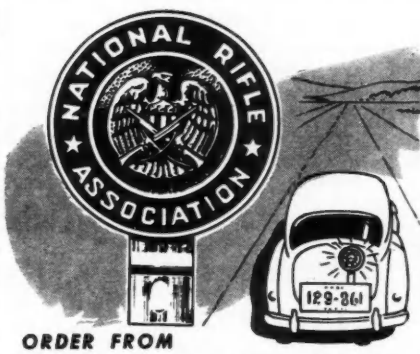

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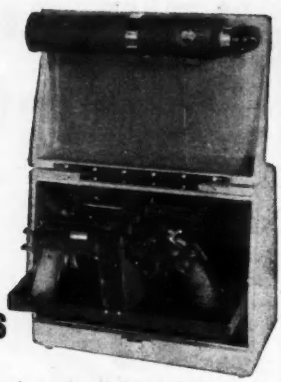

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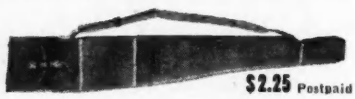

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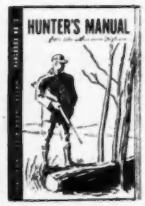

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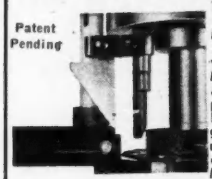

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